

1000890

(ILD 000 608 471)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT

**Facility Name and Location:** Clean Harbors Services Inc.  
11800 South Stony Island Avenue  
Chicago, IL 60617

**Owner(s):** Illinois International Port District  
3600 East 95<sup>th</sup> Street  
Chicago, IL 60617

Clean Harbors Services Inc.  
11800 South Stony Island Avenue  
Chicago, IL 60617

**Operator(s):** Clean Harbors Services Inc.  
11800 South Stony Island Avenue  
Chicago, IL 60617

**U.S. EPA Identification Number:** ILD 000 608 471

**Effective Date:** December 28, 2005

**Expiration Date:** December 9, 2015

**Authorized Activities:**

The United States Environmental Protection Agency (U.S. EPA) hereby issues a Resource Conservation and Recovery Act (RCRA) permit (hereinafter referred to as the "permit") to Clean Harbors Services Inc. and Illinois International Port District (hereinafter referred to as the "Permittees" or addressed in the second person as "you") in connection with the hazardous waste treatment, storage, and disposal activities at 11800 South Stony Island Ave., Chicago, Illinois.

This permit is issued under the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984 (42 U.S.C. § 6901 *et seq.*) (collectively referred to as RCRA) and U.S. EPA's regulations promulgated thereunder (codified, and to be codified, in Title 40 of the Code of Federal Regulations (40 CFR)).

Specifically, this permit addresses: (1) certain restrictions and prohibitions on land disposal of hazardous wastes in accordance with 40 CFR Part 268; (2) other federal RCRA regulations for which the state has not yet been authorized; and (3) air emissions standards for tanks and containers in accordance with 40 CFR § 264.1080 *et seq.* (40 CFR Part 264, Subpart CC) and miscellaneous units under 40 CFR Part 264, Subpart X.

The RCRA permit is comprised of both this permit, which contains the effective federal RCRA permit conditions, and the effective state RCRA permit conditions issued by the State of Illinois RCRA program authorized under 40 CFR Part 271 (hereinafter called the "state-issued portion of the RCRA permit"). Any hazardous waste activity, which requires a RCRA permit and is not included in the permit, is prohibited.

### **Permit Approval:**

On January 31, 1986, the State of Illinois received final authorization pursuant to Section 3006 of RCRA, 42 USC § 6926, and 40 CFR Part 271, to administer the pre-HSWA RCRA hazardous waste program. The State of Illinois has also received final authorization to administer certain additional RCRA requirements on several occasions since then. However, because the U.S. EPA has not yet authorized the State of Illinois to administer certain regulations, including the air emission standards for tanks and containers handling hazardous wastes (see 40 CFR § 264.1080 *et seq.*, also known as "Subpart CC"), recent additions to the regulations covering the land disposal restrictions (40 CFR Part 268), and changes to other sections of applicable regulations, the U.S. EPA Region 5 is issuing the RCRA permit requirements for operations at the Permittee's facility which fall under these regulations.

You must comply with all terms and conditions contained in this permit. This permit consists of all the conditions contained herein, all documents attached hereto and all documents listed or cross-referenced in these documents, approved submittals (including plans, schedules and other documents), and the applicable regulations contained in 40 CFR Parts 124, 260, 261, 262, 264, 268, 270, and applicable provisions of RCRA.

This permit is based on the assumptions that: (1) the information submitted in the Permittee's RCRA permit application dated May 7, 2003, and in any subsequent modifications to that application (hereinafter referred to as the "Application") are accurate and (2) the facility is configured, operated and maintained as specified in the permit, and as described in the permit application.

Any inaccuracies in the submitted information may be grounds for the U.S. EPA to terminate, revoke and reissue, or modify this permit in accordance with 40 CFR §§ 270.41, 270.42 and 270.43; and for enforcement action. You must inform the U.S. EPA of any deviation from, or changes in, the information in the Application that might affect your ability to comply with the applicable regulations or conditions of this permit.


**Opportunity to Appeal:**

Petitions for review must be submitted within 30 days after the U.S. EPA serves notice of the final permit decision. Any person who filed comments on the draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision. Any person who failed to file comments or failed to participate in the public hearing on the draft permit may file a petition for review only to the extent of the changes from the draft to the final permit decision. The procedures for permit appeals are found in 40 CFR § 124.19.

**Effective Date:**

This permit is effective as of Dec. 28, 2005 will remain in effect until December 9, 2015, unless revoked and reissued under 40 CFR § 270.41, terminated under 40 CFR § 270.43, or continued in accordance with 40 CFR § 270.51(a).

By:

  
Margaret M. Guerriero, Director  
Waste, Pesticides and Toxics Division

Date: 12/28/05

## TABLE OF CONTENTS

SECTION I--STANDARD PERMIT CONDITIONS .....	1
I.A    EFFECT OF PERMIT .....	1
I.B    PERMIT ACTIONS .....	1
I.B.1    Permit Review, Modification, Revocation and Reissuance, and Termination .....	1
I.B.2    Permit Renewal .....	2
I.C    SEVERABILITY .....	2
I.D    DEFINITIONS .....	2
I.E    DUTIES AND REQUIREMENTS .....	2
I.E.1    Duty to Comply .....	2
I.E.2    Duty to Reapply .....	3
I.E.3    Permit Expiration .....	3
I.E.4    Need to Halt or Reduce Activity Not a Defense .....	3
I.E.5    Duty to Mitigate .....	3
I.E.6    Proper Operation and Maintenance .....	3
I.E.7    Duty to Provide Information .....	4
I.E.8    Inspection and Entry .....	4
I.E.9    Monitoring and Records .....	4
I.E.10    Reporting Planned Changes .....	5
I.E.11    Reporting Anticipated Noncompliance .....	5
I.E.12    Certification of Construction .....	5
I.E.13    Transfer of Permits .....	6
I.E.14    Twenty-Four Hour Reporting .....	6
I.E.15    Other Noncompliance .....	7
I.E.16    Other Information .....	8
I.F    SIGNATORY REQUIREMENT .....	8
I.G    REPORTS, NOTIFICATIONS AND SUBMISSIONS TO THE DIRECTOR ..	8
I.H    CONFIDENTIAL INFORMATION .....	8
I.I    DOCUMENTS TO BE MAINTAINED AT THE FACILITY .....	9
I.I.1    Operating Record .....	9
I.I.2    Notifications .....	9
I.I.3    Copy of Permit .....	9
I.J    ATTACHMENTS AND DOCUMENTS INCORPORATED BY REFERENCE .....	9
I.K    COORDINATION WITH THE CLEAN AIR ACT .....	10



SECTION II -- LAND DISPOSAL RESTRICTIONS .....	10
II.A General Conditions .....	10
II.B Testing and Related Requirements .....	11
II.C Storage Prohibitions .....	11
II.D Blending of Metal Wastes .....	12
SECTION III-- OTHER FEDERAL RCRA REQUIREMENTS .....	12
III.A ADDITIONAL HAZARDOUS WASTE NUMBERS .....	12
SECTION IV -- AIR EMISSION STANDARDS (40 CFR Part 264 Subpart CC) .....	12
IV.A Containers and Tanks .....	12
IV.A.1 Waste Determination .....	13
IV.A.2 Requirements for Level 1 Containers .....	13
IV.A.3 Requirements for Level 2 Containers .....	14
IV.A.4 Requirements for Roll-off Containers Storage Area .....	15
IV.A.5 Requirements for Level 1 Tanks .....	15
IV.A.6 Requirements for Level 2 Tanks .....	16
IV.A.7 Closed vent system and control devices (Carbon Adsorption) .....	17
IV.A.8 Containers and Tanks Exempt From Subpart CC Control Standards ..	18
IV.B Requirements for Miscellaneous Units .....	18
IV.B.1 Emission Control for Shredder and Metal Cleaning System .....	18
IV.B.2 Drum Elevator .....	18
IV.B.3 Hydrapulper and Vibratory Screen .....	19
IV.B.4 Close Vent System and Control Devices (Carbon Adsorption) .....	19
IV.C Recordkeeping and Reporting Requirements .....	19

## **SECTION I -- STANDARD PERMIT CONDITIONS**

### **I.A EFFECT OF PERMIT**

The RCRA permit is comprised of both this permit, which contains the effective federal RCRA permit conditions, and the effective state RCRA permit. You are hereby allowed to manage hazardous waste in accordance with the permit. Under this permit, the storage and treatment of RCRA hazardous waste must comply with all terms and conditions in this permit. Other aspects of the storage and treatment of RCRA hazardous wastes are subject to the conditions in the state-issued portion of the RCRA permit. Any hazardous waste activity, which requires a RCRA permit and is not included in the permit, is prohibited.

Subject to 40 CFR § 270.4, compliance with the RCRA permit during its term constitutes compliance for purposes of enforcement with Subtitle C of RCRA except for those requirements not included in the permit which: (1) become effective by statute; (2) are promulgated under 40 CFR Part 268 restricting the placement of hazardous waste in or on the land; (3) are promulgated under 40 CFR Part 264 regarding leak detection systems; or (4) promulgated under subparts AA, BB, or CC of 40 CFR Part 265 limiting air emissions. (40 CFR § 270.4)

This permit does not: (1) convey any property rights or any exclusive privilege; (40 CFR § 270.30(g)) (2) authorize any injury to persons or property, or invasion of other private rights; or (3) authorize any infringement of state or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued, or any action brought, under: (1) Sections 3008(a), 3008(h), 3013, or 7003 of RCRA; (2) Sections 104, 106(a), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 USC §§ 9601 *et seq.* (commonly known as CERCLA); or (3) any other law protecting human health, welfare, or the environment.

### **I.B PERMIT ACTIONS**

#### **I.B.1 Permit Review, Modification, Revocation and Reissuance, and Termination**

The U.S. EPA may review and modify, revoke and reissue, or terminate this permit for cause, as specified in 40 CFR § 270.41, § 270.42, and § 270.43. The U.S. EPA may also review and modify this permit, consistent with 40 CFR § 270.41, to include any terms and conditions it determines are necessary to protect human health and the environment under Section 3005(c)(3) of RCRA. The filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or

anticipated noncompliance on your part will not stay the applicability or enforceability of any permit condition. (40 CFR § 270.30(f))

You must not perform any construction associated with a Class 3 permit modification request until such modification request is granted and the modification becomes effective. You may perform construction associated with a Class 2 permit modification request beginning 60 days after submission of the request unless the Director establishes a later date. (40 CFR § 270.42(b)(8))

#### **I.B.2 Permit Renewal**

This permit may be renewed as specified in 40 CFR § 270.30(b) and Condition I.E.2 of this permit. In reviewing any application for a permit renewal, the U.S. EPA will consider improvements in the state of control and measurement technology, and changes in applicable regulations. (40 CFR § 270.30(b) and RCRA Section 3005(c)(3))

#### **I.C SEVERABILITY**

This permit's provisions are severable; if any permit provision, or the application of any permit provision to any circumstance, is held invalid, such provision's application to other circumstances and the remainder of this permit will not be affected. Invalidity of any statutory or regulatory provision on which any condition of this permit is based does not affect the validity of any other statutory or regulatory basis for that condition. (40 CFR § 124.16(a))

#### **I.D DEFINITIONS**

The terms used in this permit will have the same meaning as in 40 CFR Parts 124, 260 through 266, 268 and 270, unless this permit specifically provides otherwise. Where neither the regulations nor the permit define a term, the term's definition will be the standard dictionary definition or its generally accepted scientific or industrial meaning.

#### **I.E DUTIES AND REQUIREMENTS**

##### **1.E.1 Duty to Comply**

You must comply with all conditions of this permit, except to the extent and for the duration for which an emergency permit authorizes such noncompliance (40 CFR § 270.61). Any permit noncompliance, except under the terms of an emergency permit, constitutes a violation of RCRA and will be grounds for enforcement action; permit termination, revocation and reissuance; modification; or denial of a permit renewal application. (40 CFR § 270.30(a))

## **I.E.2 Duty to Reapply**

If you wish to continue the permit regulated activities after the expiration date, you must apply for and obtain a new permit. You must submit a complete application for a new permit at least 180 days before the permit expiration date, unless the Director grants permission for a later submittal date. The Director will not grant permission to submit the complete application for a new permit later than the permit's expiration date. (40 CFR §§ 270.10(h), and 270.30(b))

## **I.E.3 Permit Expiration**

Unless revoked or terminated, this permit and all conditions herein will be effective for a fixed term not to exceed 10 years from this permit's effective date. This permit and all conditions herein will remain in effect beyond the permit's expiration date if you have submitted a timely, complete application (40 CFR § 270.10 and §§ 270.13 through 270.29), and, through no fault of your own, the Director has not made a final determination regarding permit reissuance. (40 CFR §§ 270.50, and 270.51)

## **I.E.4 Need to Halt or Reduce Activity Not a Defense**

In an enforcement action, you are not entitled to a defense that it would have been necessary to halt or reduce the permitted activity to maintain compliance with this permit. (40 CFR § 270.30(c))

## **I.E.5 Duty to Mitigate**

In the event of noncompliance with this permit, you must take all reasonable steps to minimize releases to the environment resulting from the noncompliance and must implement all reasonable measures to prevent significant adverse impacts on human health or the environment. (40 CFR § 270.30(d))

## **I.E.6 Proper Operation and Maintenance**

You must always properly operate and maintain all facilities and treatment and control systems (and related appurtenances) that you install or use to comply with this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires you to operate back-up or auxiliary facilities or similar systems only when necessary to comply with this permit. (40 CFR § 270.30(e))

#### **I.E.7 Duty to Provide Information**

You must provide the Director, within a reasonable time, any relevant information that the Director requests to determine whether there is cause to modify, revoke and reissue, or terminate this permit, or to determine permit compliance. You must also provide the Director, upon request, with copies of any records this permit requires. The information you must maintain under this permit is not subject to the Paperwork Reduction Act of 1980, 44 USC §§ 3501 *et seq.* (40 CFR §§ 264.74(a) and 270.30(h))

#### **I.E.8 Inspection and Entry**

Upon the presentation of credentials and other legally required documents, you must allow the Director or an authorized representative to:

**I.E.8.a** Enter at reasonable times upon your premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;

**I.E.8.b** Have access to and copy, at reasonable times, any records that you must keep under the conditions of this permit;

**I.E.8.c** Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

**I.E.8.d** Sample or monitor any substances at any location at reasonable times, to ensure permit compliance or as RCRA otherwise authorizes.  
(40 CFR § 270.30(i))

Notwithstanding any provision of this permit, U.S. EPA retains the inspection and access authority which it has under RCRA and other applicable laws.

#### **I.E.9 Monitoring and Records**

**I.E.9.a** Samples and measurements taken for monitoring purposes must be representative of the monitored activity. The methods used to obtain a representative sample of the wastes, contaminated media, treatment residue, or other waste to be analyzed must be the appropriate methods from Appendix I of 40 CFR Part 261, or the methods specified in the state-approved waste analysis plan, or an equivalent method approved by the Director. Laboratory methods must be those specified in *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846, latest edition), *Methods for Chemical Analysis of Water and Wastes* (EPA 600/4-79-020), or an equivalent method, as specified in the referenced waste analysis plan. (40 CFR § 270.30(j)(1))

**I.E.9.b** You must retain, at the facility, all records as specified in 40 CFR § 264.74.

**I.E.9.c** You must submit all monitoring results at the intervals specified in this permit.

**I.E.9.d** You must retain all reports, records, or other documents, required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the reports, records, or other documents, unless a different period is specified in this permit. The 3-year period may be extended by request of the Director at any time and is automatically extended during the course of any unresolved enforcement action regarding this facility. (40 CFR §§ 270.30(j) and 270.31))

#### **I.E.10 Reporting Planned Changes**

You must notify the Director as soon as possible of any planned physical alterations or additions to the permitted facility. (40 CFR § 270.30(l)(1))

#### **I.E.11 Reporting Anticipated Noncompliance**

You must notify the Director, in advance, of any planned changes in the permitted facility or activity that may result in permit noncompliance. Advance notice will not constitute a defense for any noncompliance. (40 CFR § 270.30(l)(2))

#### **I.E.12 Certification of Construction**

Subject to the requirements of 40 CFR § 270.32(b)(2) and § 270.42 Appendix I, you must not operate any RCRA air emission control devices completed after the effective date of this permit until you have submitted to the Director, by certified mail or hand-delivery, a letter signed both by your authorized representative and by a registered professional engineer. That letter must state that the portions of the facility covered by this permit (including all air emission control devices required by this permit) have been constructed in compliance with the applicable conditions of this permit. In addition, you must not operate the permitted control devices until either:

**I.E.12.a** The Director or his/her representative has inspected those portions of the facility and finds them in compliance with the conditions of the permit; or

**I.E.12.b** The Director waives the inspection, if the inspection is not conducted within 30 days from the receipt of the certification.

### **I.E.13 Transfer of Permits**

This permit is not transferable to any person, except after notice to the Director. You must inform the Director and obtain prior approval of the Director before transferring ownership or operational control of the facility (40 CFR § 270.42, Appendix I). Under 40 CFR § 270.40, the Director may require permit modification, or revocation and reissuance to change the Permittee's name and incorporate other RCRA requirements. Before transferring ownership or operation of the facility during its operating life, you must notify the Director and obtain prior approval and notify the new owner or operator in writing of the requirements of this permit and the requirements of 40 CFR Parts 264, 268, and 270. (40 CFR §§ 264.12(c), 270.30(l)(3), and 270.40(a))

### **I.E.14 Twenty-Four Hour Reporting**

**I.E.14.a** You must report to the Director any noncompliance with this permit that may endanger human health or the environment. Any such information must be promptly reported orally, but no later than 24 hours after you become aware of the noncompliance.

**I.E.14.b** The report must include the following information (40 CFR §§ 270.30(l)(6) and 270.33): (1) release of any hazardous waste that may endanger public drinking water supplies; (2) release or discharge of hazardous waste; or (3) fire or explosion from the hazardous waste management facility, that could threaten the environment or human health outside the facility. You must include the following information:

- (1) Name, title and telephone number of the person making the report;
- (2) Name, address and telephone number of the facility;
- (3) Name, address and telephone number of owner or operator;
- (4) Date, time and type of incident;
- (5) Location and cause of incident;
- (6) Identification and quantity of material(s) involved;
- (7) Extent of injuries, if any;
- (8) Assessment of actual or potential hazards to the environment and human health outside the facility, where applicable;

- (9) Description of any emergency action taken to minimize the threat to human health and the environment; and
- (10) Estimated quantity and disposition of recovered material that resulted from the incident.

**I.E.14.c** In addition to the oral notification required under Conditions I.E.14.a and I.E.14.b of this permit, a written report must also be provided within 5 calendar days after you become aware of the circumstances. The written report must include, but is not limited to, the following:

- (1) Name, address and telephone number of the person reporting;
- (2) Incident description (noncompliance and/or release or discharge of hazardous waste), including cause, location, extent of injuries, if any, and an assessment of actual or potential hazards to the environment and human health outside the facility, where applicable;
- (3) Period(s) in which the incident (noncompliance and/or release or discharge of hazardous waste) occurred, including exact dates and times;
- (4) Whether the incident's results continue to threaten human health and the environment, which will depend on whether the noncompliance has been corrected and/or the release or discharge of hazardous waste has been adequately cleaned up; and
- (5) If the noncompliance has not been corrected, the anticipated period for which it is expected to continue, and the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance.

The Director may waive the requirement that written notice be provided within 5 calendar days; however, you will then be required to submit a written report within 15 calendar days of the day on which you must provide oral notice, in accordance with Conditions I.E.14.a and I.E.14.b of this permit. (40 CFR § 270.30(1)(6))

#### **I.E.15 Other Noncompliance**

You must report all instances of noncompliance not reported under Condition I.E.14 of this permit, when any other reports this permit requires are submitted. The reports must contain the information listed in Condition I.E.14. (40 CFR § 270.30(1)(10))



**I.E.16 Other Information**

**I.E.16.a** Whenever you become aware that you failed to submit or otherwise omitted any relevant facts in the permit application or other submittal, or submitted incorrect information in the permit application or other submittal, you must promptly notify the Director of any incorrect information or previously omitted information, submit the correct facts or information, and explain in writing the circumstances of the incomplete or inaccurate submittal.  
(40 CFR § 270.30(l)(11))

**I.E.16.b** All other requirements contained in 40 CFR § 270.30 not specifically described in this permit are incorporated into this permit and you must comply with all those requirements.

**I.F SIGNATORY REQUIREMENT**

You must sign and certify all applications, reports, or information this permit requires, or which are otherwise submitted to the Director, in accordance with 40 CFR § 270.11.  
(40 CFR § 270.30(k))

**I.G REPORTS, NOTIFICATIONS AND SUBMITTALS TO THE DIRECTOR**

Except as otherwise specified in this permit, all reports, notifications, or other submittals that this permit requires to be submitted to the Director should be sent by certified mail or hand-delivered to the U.S. Environmental Protection Agency, Region 5, at the following address:

Waste Management Branch, DW-8J  
Waste, Pesticides and Toxics Division  
U.S. EPA Region 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604

**I.H CONFIDENTIAL INFORMATION**

In accordance with 40 CFR Part 2 Subpart B, you may claim any information this permit requires, or is otherwise submitted to the Director, as confidential. You must assert any such claim at the time of submittal in the manner prescribed on the application form or instructions, or, in the case of other submittals, by stamping the words "Confidential Business Information" on each page containing such information. If you made no claim at the time of submittal, the Director may make the information available to the public without further notice. If you assert a claim, the information will be treated in accordance with the procedures in 40 CFR Part 2. (40 CFR § 270.12)

## **I.I DOCUMENTS TO BE MAINTAINED AT THE FACILITY**

You must maintain at the facility, until closure is completed and certified by an independent registered professional engineer, the following documents and all amendments, revisions, and modifications to them.

### **I.I.1 Operating Record**

You must maintain in the facility's operating record the documents required by this permit, and by the applicable portions of 40 CFR §§ 264.1035, 264.1064, 264.1084, 264.1088, 264.1089 and 40 CFR § 264.73 (as they apply to the equipment used to comply with this permit).

### **I.I.2 Notifications**

You must maintain notifications from generators accompanying initial incoming shipment of wastes subject to 40 CFR Part 268 Subpart C, that specify treatment standards, as required by 40 CFR §§ 264.73, 268.7 and this permit.

The Permittees shall notify the Regional Administrator of any waste management units which become subject to the requirements of 40 CFR Part 264, Subpart CC, within 30 days of startup of the regulated activity.

### **I.I.3 Copy of Permit**

You must keep a copy of this permit on site, including all the documents listed in any attachments, and you must update it as necessary to incorporate any official permit modifications.

## **I.J ATTACHMENTS AND DOCUMENTS INCORPORATED BY REFERENCE**

**I.J.1** All attachments and documents that this permit requires to be submitted, if any, including all plans and schedules are, upon the Director's approval, incorporated into this permit by reference and become an enforceable part of this permit. Since required items are essential elements of this permit, failure to submit any of the required items or submission of inadequate or insufficient information may subject you to enforcement action under Section 3008 of RCRA. This action may include fines, or permit suspension or revocation.

**I.J.2** This permit also includes the documents attached hereto, all documents cross-referenced in these documents, and the applicable regulations contained in 40 CFR Parts 124, 260, 261, 262, 264, 268, 270, and the applicable provisions of RCRA, all of which are incorporated herein by reference.

**I.J.3** Any inconsistency or deviation from the approved designs, plans and schedules is a permit noncompliance. The Director may grant written requests for extensions of due dates for submittals required in this permit.

**I.J.4** If the Director determines that actions beyond those provided for, or changes to what is stated herein, are warranted, the Director may modify this permit according to procedures in Condition I.B of this permit.

**I.J.5** If any documents attached to this permit are found to conflict with any of the Conditions in this permit, the Condition will take precedence.

## **I.K COORDINATION WITH THE CLEAN AIR ACT**

You must fully comply with all applicable Clean Air Act (CAA) and RCRA permit limits. Where two or more operating limitations apply, the most stringent operating limitation takes precedence.

## **SECTION II -- LAND DISPOSAL RESTRICTIONS**

### **II.A GENERAL CONDITIONS**

**II.A.1** You must comply with all the applicable self-implementing requirements of 40 CFR Part 268 and all applicable land disposal requirements which become effective by statute. (42 U.S.C. § 6924)

**II.A.2** A mixture of any restricted waste with nonrestricted waste(s) is a restricted waste under 40 CFR Part 268.

**II.A.3** Except as expressly allowed under 40 CFR Part 268, you must not in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with 40 CFR Part 268, Subpart D, to circumvent the effective date of a prohibition in 40 CFR Part 268, Subpart C, to otherwise avoid a prohibition in 40 CFR Part 268, Subpart C, or to circumvent a land disposal prohibition imposed by Section 3004 of RCRA.

**II.A.4** You must maintain a current list of the EPA hazardous waste numbers handled by the facility that are identified in 40 CFR Part 268, Subparts B and C. The list must include all waste numbers handled by the facility, and any associated treatment standards, and shall be updated through the inclusion of new treatment standards, as promulgated or

amended. This list must be provided to the U.S. EPA representatives, or their designees, upon request.

## **II.B TESTING AND RELATED REQUIREMENTS**

**II.B.1** In accordance with 40 CFR § 268.7(a), you must test any waste generated at the facility, or use knowledge of the waste, to determine if the waste is restricted from land disposal.

**II.B.2** You must comply with all applicable treatment standards provided in 40 CFR Part 268, Subpart D.

**II.B.3** You must comply with all the applicable notification, certification, and recordkeeping requirements described in 40 CFR § 268.7(a) and (b).

## **II.C STORAGE PROHIBITIONS**

**II.C.1** You must comply with all the applicable prohibitions on storage of restricted wastes specified in 40 CFR Part 268, Subpart E.

**II.C.2** Except as otherwise provided in 40 CFR § 268.50, you may store restricted wastes in tanks and containers solely for the purpose of the accumulation of such quantities of hazardous wastes as necessary to facilitate proper recovery, treatment, or disposal provided that:

**II.C.2.a** Each container is clearly marked to identify its contents and the date each period of accumulation begins; and

**II.C.2.b** Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at the facility.

**II.C.3** You may store restricted wastes for up to 1 year unless the U.S. EPA or its authorized agent can demonstrate that such storage was not solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment, or disposal. (40 CFR § 268.50(b))

**II.C.4** You may store restricted wastes beyond 1 year; however, you bear the burden of proving that such storage was solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment, or disposal. (40 CFR § 268.50(c))

**II.C.5** You must not store any liquid hazardous waste containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 parts per million (ppm) unless the waste is stored in a storage facility that meets the requirements of 40 CFR § 761.65(b). This waste must be removed from storage and treated or disposed as required by 40 CFR Part 268 within 1 year of the date when such wastes are first put into storage. (40 CFR § 268.50(f))

## **II.D BLENDING OF METAL WASTES**

You must not dilute metal-bearing wastes (listed in Appendix XI of 40 CFR Part 268), if the diluted waste will be used as fuel in any RCRA permitted combustion facility, unless you have demonstrated that the diluted waste complies with one or more of the criteria specified in 40 CFR § 268.3(c).

## **SECTION III -- OTHER FEDERAL RCRA REQUIREMENTS**

### **III.A ADDITIONAL HAZARDOUS WASTE NUMBERS**

In addition to the hazardous waste numbers listed in the state-issued portion of the RCRA permit, you may handle newly listed hazardous wastes, promulgated under the HSWA, at your facility only if you have processed a Class 1 and/or Class 2 permit modification in accordance with 40 CFR § 270.42(g). All handling of these wastes must comply with the applicable provisions of both the state-issued portion and the federally-issued portion of the RCRA permit.

## **SECTION IV -- AIR EMISSIONS STANDARDS (40 CFR Part 264, Subpart CC)**

### **IV.A CONTAINERS AND TANKS**

You must comply with all applicable requirements of 40 CFR § 264.1080 through 40 CFR § 264.1090, regarding air emission standards for containers and tanks handling hazardous waste. All containers and tanks not exempt from 40 CFR Part 264, Subpart CC must be managed using Level 1 control or Level 2 control as appropriate. You must not conduct any waste stabilization process, as defined in 40 CFR § 265.1081, in containers and tanks.

#### **IV.A.1 Waste Determination**

**IV.A.1.a** In accordance with the procedures specified in 40 CFR § 264.1083, you must determine the average volatile organic (VO) concentration of: (1) generated hazardous waste at the point of origination, and (2) treated hazardous waste. You must determine the maximum organic vapor pressure of a hazardous waste.

#### **IV.A.2 Requirements for Level 1 Containers**

You must manage hazardous waste with a VO concentration of 500 parts per million and greater by weight (ppmw) in containers with Container Level 1 standards as stipulated under 40 CFR § 264.1086(c). The hazardous waste stored in Level 1 containers must meet the following requirements.

**IV.A.2.a** Unless all containers are treated as Level 2 containers, they must be stored in a separate area or clearly marked to avoid potential mixup with the Level 2 containers.

**IV.A.2.b** Containers with a design capacity equal to or greater than 0.46 m<sup>3</sup> (122 gallons) shall not be used in light material service as defined in 40 CFR § 265.1081.

**IV.A.2.c** A Level 1 container must meet one of the following:

- (1) meet the applicable U.S. Department of Transportation (DOT) regulations as specified in 40 CFR § 264.1086(f), or
- (2) be equipped with a cover and closure devices with an acceptable tightness and construction materials in accordance with 40 CFR § 264.1086(c)(1)(ii), or
- (3) be an open-top container with organic vapor suppressing barrier to prevent hazardous waste from being exposed to the atmosphere as specified in 40 CFR § 264.1086(c)(1)(iii).

Containers, which meet the requirements of IV.A.2.c(2) or (3), must be equipped with covers and enclosures suitable for the physical and chemical characteristics of hazardous waste in containers, maintaining container integrity throughout the life of the container, and the environments under which the containers are placed in the storage facility. Any chemical used for vapor suppression must not generate heat and/or fume and must be compatible with the hazardous waste in the container. Vapor suppression chemicals must act as an acceptable and stable barrier to the hazardous waste, thus preventing releases of VO into the environment. The barrier shall not chemically react with the hazardous waste. (40 CFR § 264.1086(c)(2))

**IV.A.2.d** All covers and closure devices must be in closed position whenever hazardous waste is in a container. Opening of a closure device or cover is allowed if it meets the purpose and operates as defined in 40 CFR § 264.1086(c)(3)(i) through (v).

**IV.A.2.e** You must inspect the containers and their covers and closure devices in accordance with 40 CFR § 264.1086(c)(4).

#### **IV.A.3 Requirement for Level 2 Containers**

Containers with a design capacity greater than 0.46 m<sup>3</sup> (122 gallons) and in light material service as defined in 40 CFR § 265.1081 must be managed in accordance with Container Level 2 standards as stipulated under 40 CFR § 264.1086(d). The Level 2 containers must meet the following requirements.

**IV.A.3.a** A Level 2 container must meet one of the following requirements:

- (1) meet the applicable U.S. Department of Transportation regulations and 40 CFR § 264.1086(f) for the purpose of compliance, or
- (2) operate with no detectable organic emissions as defined in 40 CFR § 265.1081 and determined in accordance with 40 CFR § 264.1086(g), or
- (3) has been demonstrated within the preceding 12 months to be vapor-tight by using 40 CFR § Part 60, Appendix A, Method 27 with the procedures specified in 40 CFR § 264.1086(h).

**IV.A.3.b** Transfer of hazardous waste in or out of a container must be conducted using an engineered method generally accepted and practiced by the industry, or its equivalent method to the extent practical, to minimize the release of organics into the atmosphere. (40 CFR § 264.1086(d)(2))

**IV.A.3.c** All covers and closure devices must be in closed position whenever hazardous waste is in a container. Opening of a closure device or cover is allowed if it meets the purpose and operates as defined in 40 CFR § 264.1086(d)(3)(i) through (v).

**IV.A.3.d** Inspection: You must inspect the containers and their covers and closure devices in accordance with 40 CFR § 264.1086(d)(4).

#### **IV.A.4 Requirements for Roll-off Containers Storage Area**

**IV.A.4.a** The Permittees shall equip the roll-off container with a cover and a closure device to form a continuous barrier over the container openings. The cover must remain closed and secure at all times except when adding and removing waste or other materials.

**IV.A.4.b** The Permittees shall maintain an organic capturing system for: (1) the metal wash system, (2) sludge collection drum area, and (3) all material conveying systems.

**IV.A.4.c** The collected air stream from the organic capturing system shall be directed to a carbon adsorption system, designed to capture organic emissions in accordance with 40 CFR § 264.1033.

#### **IV.A.5 Requirements for Level 1 Tanks**

Each tank storing hazardous waste with a VO concentration equal to or greater than 500 ppmw must comply with the following:

**IV.A.5.a** The design capacity of each tank must be less than 75 m<sup>3</sup> and the maximum vapor pressure, as determined by 40 CFR § 264.1083(c)(2), must be less than 76.6 kilo Pascals (kPa).

**IV.A.5.b** The hazardous waste in the tank should not be heated to a temperature that is greater than the temperature at which the maximum vapor pressure of 76.6 kPa is determined.

**IV.A.5.c** The hazardous waste in the tank should not be treated by any waste stabilization process as defined in 40 CFR § 265.1081.

You must comply with Level 1 control requirements in accordance with 40 CFR § 264.1084. Each tank must be a fixed roof design complying with the following specifications:

**IV.A.5.d** The fixed roof tank shall be of butt and/or lap welded construction throughout and shall, upon initial installation, be hydraulically and/or air tested to the maximum working pressure without leaks according to standards set forth by the American Petroleum Institute (API), American Standard for Testing Materials (ASTM) standards, or other appropriate standard engineering codes and standards.



**IV.A.5.e** The tank closure devices must be designed and constructed to form a continuous barrier over the entire surface area of the hazardous waste in the tank. Gaskets used for closure devices or piping systems shall be of suitable materials compatible with the hazardous wastes and shall be in accordance with good engineering practices.

**IV.A.5.f** Each opening in the fixed roof and any manifold system associated with the fixed roof shall be either:

- (1) equipped with a closure device designed to operate such that when the closure device is secured in the closed position there are no visible cracks, holes, gaps, or other open spaces in the closure device or between the perimeter of the opening and the closure device, or
- (2) connected by a closed-vent system that is vented to a control device.  
(40 CFR § 264.1084(c)(2)(iii))

The control device shall remove or destroy organics in the vent stream, and shall be operating whenever hazardous waste is managed in the tank, except during periods when it is necessary to provide access to the tank for performing routine inspections, maintenance, or other activities needed for normal operations, and for removal of accumulated sludge or other residues from the bottom of the tank.

**IV.A.5.g** Whenever a hazardous waste is in the tank, all openings (e.g., manholes, instruments connections, pipe nozzles) must be securely closed to prevent releases of vapors into the atmosphere, except for routine inspections, and maintenance. (40 CFR § 264.1084(c)(3))

**IV.A.5.h** You must inspect the tanks, at least once per year, or retest the tanks to ascertain that the air emissions from the tank systems comply with the design and with the requirements stipulated in 40 CFR § 264 1084(c)(4).

**IV.A.5.i** You must process a Class 1 permit modification and obtain an approval from the Director, if you plan to operate or to modify the tank systems for compliance with Level 2 control.

#### **IV.A.6 Requirements for Level 2 Tanks**

**IV.A.6.a** Each tank requiring Level 2 control shall be covered by a fixed roof and vented directly through a closed vent system to a control device in accordance with the requirements stipulated under 40 CFR § 264.1084(g)(1)(i) through § 264.1084(g)(1)(iv).

**IV.A.6.b** Whenever a hazardous waste is in the tank, the fixed roof shall be installed with each closure device secured in the closed position and the vapor headspace underneath the fixed roof vented to the control device except under those conditions specified in 40 CFR § 264.1084(g)(2)(i) and (ii).

**IV.A.6.c** You must inspect and monitor the air emission control equipment in accordance with the requirements stipulated under 40 CFR § 264.1084(g)(3).

**IV.A.6.d** The closed vent system and control device shall be designed and operated in accordance with the requirements of 40 CFR § 264.1087.

**IV.A.7 Closed Vent System and Control Devices (Carbon Adsorption) (40 CFR § 264.1087)**

**IV.A.7.a** The closed vent systems and control devices shall comply with the requirements in 40 CFR §§ 264.1087 and 264.1033.

**IV.A.7.b** You must demonstrate compliance with the minimum 95 % removal efficiency of total organic content of the inlet vapor stream vented to the Carbon Adsorption System. The planned routine maintenance of the Carbon Adsorption System, during which the 95 % removal efficiency cannot be met, shall not exceed 240 hours per year.

**IV.A.7.c** The Carbon Adsorption System shall have a minimum removal efficiency of 95% in accordance with 40 CFR §264.1033(c).

**IV.A.7.d** The Carbon Adsorption System shall be inspected and monitored in accordance with 40 CFR § 264.1088 by detector types (e.g., flame ionization, photoionization, infrared absorption) that meet the requirements specified in 40 CFR Part 60, Appendix A, Method 21.

**IV.A.7.e** After the Carbon Adsorption System beds are spent, the spent carbon must be treated/disposed of in a RCRA permitted TSD facility. All spent carbon removed from the control devices shall be handled as a hazardous waste.

**IV.A.7.f** The closed vent system shall not include any bypass devices that could be used to divert the gas or vapor stream to the atmosphere before entering the control device.

**IV.A.7.g** A pressure sensor, which monitors continuously the pressure and records at least once every hour the pressure in the closed vent system, shall be installed in each closed-vent system, to ascertain that a negative pressure is maintained in each closed vent system during the operation.

#### **IV.A.8 Containers and Tanks Exempt From Subpart CC Control Standards**

**IV.A.8.a** Under this permit, you must demonstrate by direct measurement or approved method that for each container or tank you claim to be exempt under Subpart CC, the average VO concentration for hazardous waste, determined in accordance with 40 CFR §§ 264.1083(a) and 265.1084(a)(2) and (3), is less than 500 ppmw.

**IV.A.8.b** For each tank or container, you must review and update this determination in accordance with 40 CFR § 264.1082(c)(1) at least once every 12 months following the date of the initial determination. For each container or tank, you must prepare and maintain the records described in 40 CFR § 264.1089(f). These records must be maintained as part of the operating record.

#### **IV.B REQUIREMENTS FOR MISCELLANEOUS UNITS ( 40 CFR Part 264, Subpart X)**

The Shredder Operation must be maintained and operated as follows:

##### **IV.B.1. Emission Control for Shredder and Metal Cleaning System**

**IV.B.1.a** The Permittees shall maintain the closed-vent system which collects the emissions from: (1) tandem drum shredders and magnetic separators, (2) enclosed conveyors and transfer chutes, and (3) the solid lugger bin.

**IV.B.1.b** The Permittees shall maintain the organic concentration in the transport ductwork so that it does not exceed 50 % of the Lower Explosion Limit (LEL) based on the concentration of the organic constituents in the air stream.

##### **IV.B.2 Drum Elevator**

**IV.B.2.a** The drum package unit, the dual shredders with hydraulic ram, and rotary magnetic separator unit shall be totally enclosed and shall be maintained at a slightly negative pressure, except when they are down for service.

**IV.B.2.b** The conveyor/drum lift outside the building shall have a steel pan below the unit and shall comply with the requirements as stipulated in 40 CFR §§ 264.175, 264.193, 264.195, and 264.196.

**IV.B.2.c** Inert gas shall be supplied to the enclosure to maintain an oxygen deficient environment inside the enclosure to eliminate explosion potential.

**IV.B.2.d** Temperature and pressure shall be continuously monitored and recorded. The fire/explosion suppression system shall be installed to prevent any fire/explosion hazards resulting from shredding of metal drums.

#### **IV.B.3 Hydrapulper and Vibratory Screen**

**IV.B.3a** The emission control from the hydrapulper and the vibratory screen shall include a vent from the hydrapulper and a vent over the vibratory screen.

**IV.B.3b** The closed vent system shall be connected to a blower for discharging the contaminated air into the Carbon Adsorption System.

#### **IV.B.4 Closed Vent System and Control Devices (Carbon Adsorption)**

**IV.B.4.a** The closed vent system and control devices shall comply with the requirements stated in section IV.A.7 Closed Vent System and Control Devices (Carbon Adsorption).

### **IV.C RECORDKEEPING AND REPORTING REQUIREMENTS**

You must comply with the recordkeeping and reporting requirements of 40 CFR §§ 264.1089 and 264.1090.

4-21-93

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
HAZARDOUS WASTE MANAGEMENT PERMIT

Name of Facility: Clean Harbors of Chicago, Incorporated  
Name of Owner: Illinois International Port District  
Name of Operator: Clean Harbors of Chicago, Incorporated  
Facility Location: Street Address: 11800 South Stony Island Avenue  
City, State: Chicago, Illinois  
EPA Identification Number: ILD000608471  
Effective Date: (35 days after signature)  
Expiration Date: (Ten years after the effective date)

**Authorized Activities:**

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, (42 U.S.C. §6901, et seq.), and regulations promulgated thereunder by the United States Environmental Protection Agency (U.S. EPA) (codified in Title 40 of the Code of Federal Regulations (40 CFR)), Federal permit conditions (hereinafter called the permit) of the RCRA permit are issued to the Illinois International Port District, and to Clean Harbors of Chicago, Incorporated (hereinafter called the Permittees), for the facility located in Chicago, Illinois.

The RCRA permit contains both the effective Federal permit conditions (contained herein) and the effective State permit conditions issued by the State of Illinois RCRA program authorized under 40 CFR Part 271 (hereinafter called the State permit). The RCRA permit authorizes the Permittees to conduct hazardous waste management activities as specified in the RCRA permit.

**Permit Approval:**

On January 31, 1986, the State of Illinois received final authorization pursuant to Section 3006 of RCRA, 42 U.S.C. §6926, and 40 CFR Part 271, to administer the pre-HSWA RCRA hazardous waste program. On April 30, 1990, the State of Illinois also received authorization to administer certain specific portions of the hazardous waste program required under HSWA. Because the State of Illinois has not yet received authorization to administer the entire hazardous waste program requirements of RCRA, certain permit conditions must be issued by the U.S. EPA to address these requirements. These additional conditions are contained in this permit.

The Permittees must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in 40 CFR Parts 260, 261, 262, 264, 266, 268, 270, and 124, and applicable provisions of HSWA.

This permit is based on the assumption that the information submitted in the permit application, dated February 25, 1983, and in any subsequent amendments (hereinafter referred to as the application), is accurate. Any inaccuracies found in this information may be grounds for the termination, revocation and reissuance, or modification of this permit (see 40 CFR 270.41, 270.42 and 270.43) and potential enforcement action. The Permittees must inform the U.S. EPA of any deviation from or changes in the information in the submitted application as soon as the Permittees become aware of such deviation or changes.

**Opportunity to Appeal:**

Petitions for review must be submitted within 30 days after service of notice of the final permit decision. Any person who filed comments on the draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision. Any person who failed to file comments or failed to participate in the public hearing on the draft permit may petition the Environmental Appeals Board to review only to the extent of the changes from the draft to the final permit decision. The procedures for permit appeals are found in 40 CFR 124.19.

**Effective Date:**

This permit is effective as of the date specified on the previous page, unless a review is requested under 40 CFR 124.19. The permit shall remain in effect until the expiration date, unless revoked and reissued, or terminated (40 CFR 270.41, and 270.43), or continued in accordance with 40 CFR 270.51.

by \_\_\_\_\_.

Norman R. Niedergang  
Acting Associate Division Director  
Office of RCRA  
Waste Management Division

Date: \_\_\_\_\_

ILD000608471

Clean Harbors of Chicago, Incorporated  
Chicago, Illinois

PERMIT INDEX

PERMIT CONDITIONS:

- I. Standard Conditions
- II. Land Disposal Requirements
- III. Toxicity Characteristic
- IV. Air Emission Standards
- V. Schedule of Compliance

## PERMIT CONDITIONS

(Note: The regulatory citations in parentheses are incorporated by reference.)

### I. STANDARD CONDITIONS

#### A. EFFECT OF PERMIT (40 CFR 270.4 and 270.30(g))

The Permittees are allowed to manage hazardous waste in accordance with the conditions of the RCRA permit. Any management of hazardous waste not authorized in the RCRA permit is prohibited.

Compliance with the RCRA permit during its term constitutes compliance, for the purposes of enforcement, with Subtitle C of RCRA, except for those requirements not included in the permit which become effective by statute, or which are promulgated under 40 CFR Part 268, restricting the placement of hazardous waste in or on the land. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), 3008(h), 3013, or 7003 of RCRA; Sections 104, 106(a), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. §9601 et seq., commonly known as CERCLA); or any other law providing for protection of public health or the environment.

#### B. PERMIT ACTIONS (40 CFR 270.30(f))

This permit may be modified, revoked and reissued, or terminated for cause as specified in 40 CFR 270.41, 270.42, and 270.43. This permit may also be reviewed and modified by the U.S. EPA, consistent with 40 CFR 270.41, to include any terms and conditions determined necessary to protect human health and the environment pursuant to Section 3005(c)(3) of RCRA. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes, or anticipated noncompliance on the part of the Permittees does not stay the applicability or enforceability of any permit condition. The Permittees shall not perform any construction associated with a Class 3 modification request until such modification request is approved and the permit modification becomes effective.

#### C. SEVERABILITY (40 CFR 124.16)

The provisions of this permit are severable, and if any provision of this permit, or if the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.



D. DUTIES AND REQUIREMENTS

1. Duty to Comply. (40 CFR 270.30(a))

The Permittees shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit (See 40 CFR 270.61). Any permit noncompliance, other than noncompliance authorized by an emergency permit, constitutes a violation of RCRA and HSWA and is grounds for enforcement action, permit termination, revocation and reissuance, modification, denial of a permit renewal application, or other appropriate action.

2. Duty to Reapply. (40 CFR 270.30(b) and 270.10(h))

The Permittees shall submit a complete application for a new permit at least 180 days before this permit expires unless: a) the Permittees no longer wish to operate a hazardous waste management facility; b) the Permittees are no longer required to have a RCRA permit; or c) permission for a later date has been granted by the Regional Administrator. The Regional Administrator shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

3. Permit Expiration. (40 CFR 270.13, 270.14, 270.50, and 270.51)

This permit and all conditions herein shall be effective for a fixed term not to exceed 10 years, and will remain in effect beyond the permit's expiration date only if the Permittees have submitted a timely, complete application (per 40 CFR 270.10 and applicable sections of 270.14 through 270.29): a) to both the U.S. EPA and the State; and b) through no fault of the Permittees, the Regional Administrator and the State have not issued a new permit, as set forth in 40 CFR 270.51.

4. Need to Halt or Reduce Activity Not a Defense. (40 CFR 270.30(c))

It shall not be a defense for the Permittees in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5. Duty to Mitigate. (40 CFR 270.30(d))

In the event of releases or noncompliance with the permit, the Permittees shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health and the environment.

6. Proper Operation and Maintenance. (40 CFR 270.30(e))

The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittees to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality control/quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

7. Duty to Provide Information. (40 CFR 270.30(h) and 264.74)

The Permittees shall furnish to the Regional Administrator, within the time designated by the Regional Administrator, any relevant information which the Regional Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittees shall also furnish to the Regional Administrator, upon request, copies of records required to be kept by this permit.

8. Inspection and Entry. (40 CFR 270.30(i))

The Permittees shall allow the Regional Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter at reasonable times upon the Permittees' premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance, or as otherwise authorized by RCRA, any substances or parameters at any location.

9. Monitoring and Recordkeeping. (40 CFR 270.30(j), 270.31, 264.73, and 264.74)

The Permittees shall retain all reports, records, or other documents, required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the reports, records or other documents. These periods may be extended by request of the Regional Administrator at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.

10. Reporting Planned Changes. (40 CFR 270.30(1)(1))

The Permittees shall give notice to the Regional Administrator of any planned physical alterations or additions to the permitted facility, as soon as possible, and at least 30 days before construction of such alteration or addition is commenced.

11. Anticipated Noncompliance. (40 CFR 270.30(1)(2))

The Permittees shall give advance notice to the Regional Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Such notice does not constitute a waiver of the Permittees' duty to comply with permit requirements.

12. Transfer of Permits. (40 CFR 270.30(1)(3), 270.40(a), and 264.12(c))

This permit may be transferred by the Permittees to a new owner or operator only after providing notice to the Regional Administrator and only if the permit is modified, or revoked and reissued, pursuant to 40 CFR 270.40(b), 270.41(b)(2), or 270.42(a). Before transferring ownership or operation of the facility during its operating life, the Permittees shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264, 268, and 270 (including all applicable corrective action requirements), and shall provide a copy of the RCRA permit to the new owner or operator.

13. Compliance Schedules. (40 CFR 270.30(1)(5) and 270.33)

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted to the Regional Administrator no later than 14 days following each scheduled date.

14. Twenty-four Hour Reporting. (40 CFR 270.30(1)(6) and 270.33)

The Permittees shall report to the Regional Administrator any noncompliance with this permit which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittees become aware of the circumstances. This report shall include the following:

- a. Information concerning the release of any hazardous waste which may endanger public drinking water supplies; and
- b. Information concerning the release or discharge of any hazardous waste, or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include:
  - (1) Name, address, and telephone number of the owner or operator;
  - (2) Name, address, and telephone number of the facility;
  - (3) Date, time, and type of incident;
  - (4) Name and quantity of material(s) involved;
  - (5) The extent of injuries, if any;
  - (6) An assessment of actual or potential hazard to the environment and human health outside the facility, where this is applicable; and
  - (7) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within 5 days of the time the Permittees become aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); steps taken to minimize impact on the environment; whether the noncompliance has been corrected, and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Permittees need not comply with the 5-day written notice requirement if the Regional Administrator waives the requirement. Upon waiver of the 5-day requirement, the Permittees shall submit a written report within 15 days of the time the Permittees become aware of the circumstances.

15. Other Noncompliance. (40 CFR 270.30(1)(10))

The Permittees shall report all other instances of noncompliance not otherwise required to be reported above within 15 days of when the Permittees become aware of the noncompliance. The reports shall contain the information listed in Condition I.D.14.

16. Other Information. (40 CFR 270.30(1)(11))

Whenever the Permittees become aware that they failed to submit any relevant facts, or submitted incorrect information to the Regional Administrator in the permit application or in any reports, records, or other documentation provided to the Regional Administrator, the Permittees shall promptly submit such facts or information.

17. Submittal of Reports or Other Information. (40 CFR 270.30(1)(7), (8), and (9), and 270.31)

All reports or other information required to be submitted pursuant to this permit shall be sent to:

RCRA Permitting Branch, HRP-8J  
Waste Management Division  
U.S. EPA, Region 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

Attention: Illinois Section

18. All other requirements contained in RCRA, as amended, and in 40 CFR 270.30 not set forth herein are hereby fully incorporated in this permit.

E. SIGNATORY REQUIREMENT (40 CFR 270.30(k))

All reports or other information submitted to or requested by the Regional Administrator, his designee, or authorized representative, shall be signed and certified as required by 40 CFR 270.11.

F. CONFIDENTIAL INFORMATION

In accordance with 40 CFR 270.12 and 40 CFR Part 2, Subpart B, any information submitted to the U.S. EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by marking the words "Confidential Business Information" on each page containing such information.

If no claim is made at time of submission, the U.S. EPA may make the information available to the public without further notice. If a claim is

asserted, the information will be treated in accordance with the procedures in 40 CFR Part 2.

G. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

The Permittees shall maintain at the facility, until closure is completed and certified by an independent registered professional engineer, all items required by 40 CFR 264.73, including the following documents and all amendments, revisions, and modifications to these documents:

1. Waste Analysis Plan, as required by 40 CFR 264.13 and this permit;
2. Operating Record, as required by 40 CFR 264.73 and this permit;
3. Notifications from generators accompanying each incoming shipment of wastes subject to 40 CFR Part 268, Subtitle C, that specify treatment standards, as required by 40 CFR 264.73, 268.7, and this permit; and
4. Records regarding closed-vent systems and control devices and/or equipment leaks as required by 40 CFR 264.1035, 264.1064, and 264.73, and Condition IV.C. of this permit.

II. LAND DISPOSAL REQUIREMENTS

A. GENERAL CONDITIONS

1. The Permittees shall comply with all the applicable self-implementing requirements of 40 CFR Part 268 and all applicable land disposal requirements which become effective by statute (Section 3004 of RCRA).
2. A mixture of any restricted waste with nonrestricted waste(s) is a restricted waste under 40 CFR Part 268.
3. The Permittees shall not in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with 40 CFR Part 268, Subpart D, to circumvent the effective date of a prohibition in 40 CFR Part 268, Subpart C, to otherwise avoid a prohibition in 40 CFR Part 268, Subpart C, or to circumvent a land disposal prohibition imposed by Section 3004 of RCRA.
4. The Permittees shall prepare and maintain a current list of the hazardous waste codes handled by the facility that are identified in 40 CFR 268, Subparts B and C. The list shall include all waste codes handled by the facility, and any associated treatment standards, and shall be updated through the inclusion of new treatment standards, as promulgated or amended. This list shall be provided to the U.S. EPA representatives, or their designees, upon request.

B. TESTING AND RELATED REQUIREMENTS

1. The Permittees must test, in accordance with 40 CFR 268.7(a), any waste generated at the facility, or use knowledge of the waste, to determine if the waste is restricted from land disposal.
2. For restricted wastes with treatment standards expressed as concentrations in the waste extract, as specified in 40 CFR 268.41, the Permittees shall test the wastes or waste residues, or extracts of such residues developed using the test methods described in Appendix II of 40 CFR Part 261 (Toxicity Characteristic Leaching Procedure, or TCLP) to assure that the wastes or waste treatment residues or extracts meet the applicable treatment standards of 40 CFR Part 268, Subpart D. Such testing shall be performed as required by 40 CFR 264.13.
3. A restricted waste for which a treatment technology is specified under 40 CFR 268.42(a) may be land disposed after it is treated using that specified technology or an equivalent treatment method approved by the Administrator under the procedures set forth in 40 CFR 268.42(b).
4. For restricted wastes with treatment standards expressed as concentrations in the waste, as specified in 40 CFR 268.43, the Permittees shall test the wastes or treatment residues (not extracts of such residues) to assure that the wastes or waste treatment residues meet the applicable treatment standards of 40 CFR Part 268, Subpart D. Such testing shall be performed as required by 40 CFR 264.13.
5. The Permittees shall comply with all the applicable notification, certification, and recordkeeping requirements described in 40 CFR 268.7(a) and (b).

C. STORAGE PROHIBITIONS

1. The Permittees shall comply with all the applicable prohibitions on storage of restricted wastes specified in 40 CFR Part 268, Subpart E.
2. Except as otherwise provided in 40 CFR 268.50, the Permittees may store restricted wastes in tanks and containers solely for the purpose of the accumulation of such quantities of hazardous wastes as necessary to facilitate proper recovery, treatment, or disposal provided that:
  - a. Each container is clearly marked to identify its contents and the date each period of accumulation begins; and
  - b. Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility.

3. The Permittees may store restricted wastes for up to 1 year unless the U.S. EPA or its authorized agent can demonstrate that such storage was not solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.
4. The Permittees may store restricted wastes beyond 1 year; however, the Permittees bear the burden of proving that such storage was solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.
5. The Permittees shall not store any liquid hazardous waste containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm unless the waste is stored in a storage facility that meets the requirements of 40 CFR 761.65(b). This waste must be removed from storage and treated or disposed as required by 40 CFR Part 268 within 1 year of the date when such wastes are first put into storage. Condition II.C.4. above, that allows storage for over 1 year with specified demonstration, does not apply to PCB wastes prohibited under 40 CFR 268.32.

### III. TOXICITY CHARACTERISTIC

#### A. WASTE IDENTIFICATION

The Permittees may store and/or treat the following wastes in the tank and container storage areas identified in the State permit, subject to the terms of the RCRA permit (including the tank and container storage capacities specified in the State permit) and as follows:

<u>Description of Hazardous Waste</u>	<u>EPA Hazardous Waste Number</u>	<u>Description of Unit(s)</u>
Acids and Alkalies	D004 through D0011	Tanks and Containers
Organic wastes, halogenated and non-halogenated solvents	D012 through D043	Tanks and Containers
Waste poisons, pesticides	D012 through D017	Tanks and Containers

#### B. WASTE CHARACTERIZATION

The Permittees must use the Toxicity Characteristic Leaching Procedure (TCLP) (Appendix II of 40 CFR Part 261), or use knowledge of the waste to determine whether a waste exhibits the characteristic of toxicity, as defined in 40 CFR 261.24. Use of the TCLP does not exempt the Permittees from also using the Extraction Procedure (EP) toxicity test if required by the State permit conditions.



C. CONDITIONS REGARDING UNITS

All units described in Condition III.A. above shall be operated in accordance with the State permit conditions pertaining to those units.

IV. AIR EMISSION STANDARDS

A. PROCESS VENTS

The Permittees shall comply with all applicable requirements of 40 CFR Part 264, Subpart AA, regarding air emission standards for process vents.

B. EQUIPMENT LEAKS

The Permittees shall comply with all applicable requirements of 40 CFR Part 264, Subpart BB, regarding air emission standards for equipment leaks.

C. RECORDKEEPING

The Permittees shall comply with all applicable recordkeeping and reporting requirements described in 40 CFR 264.1035, 264.1036, 264.1064, and 264.1065.

D. NOTIFICATION OF REGULATED ACTIVITY

The Permittees shall notify the Regional Administrator of any waste management units which become subject to the requirements of 40 CFR Part 264, Subparts AA and BB, within 30 days of startup of the regulated activity.

E. DUTY TO COMPLY WITH FUTURE REQUIREMENTS

The Permittees shall comply with all self-implementing provisions of any future air regulations promulgated under the provisions of Section 3004(n) of RCRA, as amended by HSWA.

V. SCHEDULE OF COMPLIANCE

Air Emission Regulations

Due Date

Notification of waste management units subject to the requirements of 40 CFR Part 264, Subparts AA and BB.

30 days after startup of the activity.

4-21-93

**STATEMENT OF BASIS FOR  
THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (U.S. EPA)  
DRAFT RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT FOR  
CLEAN HARBORS OF CHICAGO, INCORPORATED, AND  
THE ILLINOIS INTERNATIONAL PORT DISTRICT  
CHICAGO, ILLINOIS  
ILD000608471**

**RCRA PERMITS**

In 1976, the Resource Conservation and Recovery Act (RCRA) amended the Solid Waste Disposal Act, 42 U.S.C. §6901 et seq., to require certain facilities engaged in treating, storing, or disposing of hazardous waste to have a permit for such activities. In 1984, the Solid Waste Disposal Act was again amended by the Hazardous and Solid Waste Amendments (HSWA). The 1984 legislation contains additional permitting requirements and also provides authority to the U.S. EPA to establish permit conditions for hazardous waste facilities beyond the scope of existing regulations if necessary to protect human health and the environment.

On January 31, 1986, the State of Illinois received final authorization, pursuant to Section 3006 of RCRA, 42 U.S.C. §6926, and 40 CFR Part 271, to administer the pre-HSWA RCRA hazardous waste program. The State has subsequently been authorized to also administer individual provisions of HSWA. Because the State of Illinois has not yet received authorization to administer all of the HSWA requirements, additional permit conditions must be issued by U.S. EPA to address the remaining HSWA requirements. These conditions are contained in the U.S. EPA permit, which together with the State of Illinois permit constitute the RCRA permit.

**U.S. EPA PERMIT DECISION PROCEDURES**

Section 7004(b) of RCRA, 42 U.S.C. §6974, and 40 CFR 124.10 and 124.11 require that the public be given a 45-day comment period for each draft permit issued under RCRA. The comment period begins on the day after publication of the public notice in a major local newspaper of general circulation. Any person interested in submitting comments on the draft permit must do so within this 45-day comment period.

As specified in 40 CFR 124.11 and 124.12, a public hearing will be held whenever a written notice of opposition to a draft permit and a request for a public hearing is received during the 45-day public comment period. An announcement will be published in the legal notice section of a major or local newspaper, identifying the date, time, and location of the hearing. Any person may submit oral or written statements and data concerning the draft permit at the hearing. The public comment period is extended to at least the close of the public hearing. All comments will be considered in making the final permit decision.

As specified in 40 CFR 124.15 and 124.17, after the close of the public comment period, the U.S. EPA will issue a final permit decision. Each person who has submitted written comments, given oral testimony at the hearing, or requested notice of the final permit decision shall be notified of the U.S. EPA's decision. This notice will include references to procedures for appealing the decision, and will contain the U.S. EPA's response to all significant comments to the draft permit received from the public. The notice will also specify which provisions, if any, of the draft permit have been changed in the final permit and the reasons for the changes. Any new issues raised or submissions received during the public comment period will be entered into the administrative record.

Because the RCRA draft permit is being issued jointly by the State of Illinois and the U.S. EPA, and in order to consolidate the processing of information submitted by the public, all comments regarding the draft permit and requests for a public hearing should be submitted in writing to:

Illinois Environmental Protection Agency  
Government and Community Affairs 5  
Attn: RCRA Public Involvement Coordinator  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

The U.S. EPA contact for this permit is Juana Rojo, who may be reached at (312) 886-0990.

## **FACILITY DESCRIPTION**

Clean Harbors of Chicago, Incorporated (CHCI), operates a commercial hazardous waste storage, transfer, and treatment facility. CHCI is located on the east side of Lake Calumet on the southeast side of Chicago. CHCI receives hazardous and nonhazardous industrial wastes in drums, tank trucks, and other types of containers. Accepted wastes are stored in containers and tanks and either treated in tanks or consolidated in containers and tanks for shipment to offsite treatment and/or disposal. Further details may be found in the State of Illinois' draft permit and in the permit application.

## **BRIEF SUMMARY OF PERMIT CONDITIONS**

This section provides a brief summary of the draft permit conditions. All citations in the Basis refer to the regulations codified in Title 40 of the Code of Federal Regulations (40 CFR).

<u>Permit condition</u>	<u>Subject</u>	<u>Basis</u>
I.A.	Effect of Permit	270.4 270.30(g)
I.B.	Permit Actions	270.30(f)

I.C.	Severability	124.16
I.D.1.	Duty to Comply	270.30(a)
I.D.2.	Duty to Reapply	270.30(b) 270.10(h)
I.D.3.	Permit Expiration	270.13 270.14 270.50 270.51
I.D.4.	Need to Halt or Reduce Activity Not a Defense	270.30(c)
I.D.5.	Duty to Mitigate	270.30(d)
I.D.6.	Proper Operation and Maintenance	270.30(e)
I.D.7.	Duty to Provide Information	270.30(h) 264.74
I.D.8.	Inspection and Entry	270.30(i)
I.D.9.	Monitoring and Recordkeeping	270.30(j) 270.31 264.73 264.74
I.D.10.	Reporting Planned Changes	270.30(1)(1)
I.D.11.	Anticipated Noncompliance	270.30(1)(2)
I.D.12.	Transfer of Permits	270.30(1)(3) 270.40(a) 264.12(c)
I.D.13.	Compliance Schedules	270.30(1)(5) 270.33
I.D.14.	Twenty-four Hour Reporting	270.30(1)(6) 270.33
I.D.15.	Other Noncompliance	270.30(1)(10)
I.D.16.	Other Information	270.30(1)(11)
I.D.17.	Submittal of Reports or Other Information	270.30(1)(7),(8),(9) 270.31
I.D.18.	Other Requirements	270.30

I.E.	Signatory Requirement	270.30(k)
I.F.	Confidential Information	270.12
I.G.	Documents to be Maintained	264.7
II.A.	Land Disposal Requirements: General Conditions	268.1 268.3 268 Subparts B and C
II.B.	Testing and Related Requirements	268.7 268 Subparts C and D 264.13
II.C.	Storage Prohibitions	268 Subpart E 268.32 761.65(b)
III.A.	Toxicity Characteristic: Waste Characterization	261.24 261 Appendix II
IV.A.	Air Emission Standards: Process Vents	264 Subpart AA
IV.B.	Equipment Leaks	264 Subpart BB
IV.C.	Recordkeeping	264.1035 264.1036 264.1064 264.1065
IV.D.	Notification of Regulated Activity	270.30(1)(1)
IV.E.	Duty to Comply with Future	270.30(a)
V.	Schedule of Compliance	270.30(1)(5) 270.33

Section I. of the permit contains standard conditions which are part of every RCRA permit. These conditions address general requirements related to the implementation of the permit.

Section II. addresses the land disposal prohibitions for hazardous wastes mandated by HSWA. While the Permittees are not allowed to dispose of hazardous waste at the facility, they do send such waste off-site for treatment and disposal. The provisions in this section require the Permittees to comply with the applicable testing and storage requirements for these wastes.

Section III. requires the Permittees to determine whether or not any of the solid wastes which they manage exhibit the Toxicity Characteristic (TC) identified in 40 CFR 261.24. (HSWA required the U.S. EPA to revise the original Extraction Procedure Toxicity Characteristic so as to identify additional hazardous waste characteristics.) These provisions require the Permittees to utilize the Toxicity Characteristic Leaching Procedure in lieu of the original Extraction Procedure when necessary to make a determination as to whether a solid waste exhibits the TC.

Section IV. requires the Permittees to comply with recent requirements regarding air emissions from certain process vents and from equipment leaks related to hazardous waste tank operations. The facility presently does not have any units to which these regulations apply. However, should the facility utilize such units in the future, it would have to comply with these HSWA-required air emission regulations.

Section V. sets a compliance schedule for the facility to notify the U.S. EPA should it utilize any units subject to the air emission regulations identified in Section IV.





State of Illinois

# ENVIRONMENTAL PROTECTION AGENCY

USEPA

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/524-3300

May 24, 1993

Illinois International Port District  
3600 East 95th Street  
95th & the Lakefront  
Chicago, Illinois 60617-5193

Clean Harbors of Chicago, Inc.  
11800 South Stony Island Avenue  
Chicago, Illinois 60617

Re: 0316000051 -- Cook County  
Clean Harbors of Chicago  
ILD000608471  
RCRA Log No. 16  
RCRA Part B -- Administrative Record

Gentlemen:

Enclosed is a draft Resource Conservation and Recovery Act ("RCRA") Hazardous Waste Management Part B permit and fact sheet. The draft permit is based on the administrative record contained in the Agency's files. The contents of the administrative record are described in 35 Ill. Adm. Code 705.144.

This draft permit is divided into two permits: A RCRA permit issued by the Illinois Environmental Protection Agency ("IEPA") and a Hazardous Waste Management Permit issued by the United States Environmental Protection Agency ("USEPA"). The USEPA permit generally contains only those provisions and conditions raised pursuant to the Hazardous and Solid Waste Amendments ("HSWA") of 1984 to RCRA. The IEPA permit also enforces portions of HSWA where IEPA has been granted authority. Read both documents carefully. Failure to meet any portion of either permit could result in civil and/or criminal penalties.

Under the provisions of 35 Ill. Adm. Code 705.141(d), public notice shall be given on the draft permit and administrative record. Additionally, the draft permit and administrative record must be made available for public comment. Copies of the draft decision and fact sheet are available for review at Olive Harvey College Library, 10001 South Woodlawn Avenue, Chicago. The Agency must also provide an opportunity for a public hearing. The Agency has scheduled a public hearing at the Olive Harvey College Theatre, July 15, 1993 at 7:00 p.m. The public comment period will close on August 14, 1993.

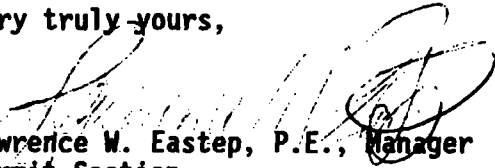
During the comment period, the applicant or any interested party may submit comments to the Agency on the permit. At the close of the comment period, the Agency will prepare a response to significant comments. Comments on the draft permit may be submitted to Mara McGinnis, Community Relations.

Page 2

The Agency will issue a final permit after the close of the public comment period unless the Agency decides to reverse the tentative decision. The appeal process and limitations are addressed in 35 Ill. Adm. Code 705.212.

If you have any questions concerning this draft permit, please contact Mark A. Schollenberger at 217/524-3307. If you intend to seek review of the USEPA issued permit, please contact USEPA -- Region V Juan Rojo at 312/886-0990 concerning the applicable review procedures.

Very truly yours,



Lawrence W. Eastep, P.E., Manager  
Permit Section  
Division of Land Pollution Control  
Bureau of Land

LWE:MAS:lat/sp/218Y,1-2

Attachments: Fact Sheet  
Draft Permit

cc: USEPA Region V, George Hamper





State of Illinois

# ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

RCRA Log No. 16

## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

### HAZARDOUS WASTE MANAGEMENT RCRA PART B PERMIT

IEPA #0316000051 -- Cook County  
USEPA ILD #000608471  
Chicago/Clean Harbors of Chicago, Inc.  
Permit Log #16  
RCRA -- Part B - Administrative Record

Issue Date:  
Effective Date:  
Expiration Date:

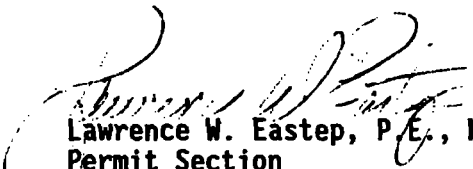
Illinois International Port District  
3600 East 95th Street  
95th & the Lakefront  
Chicago, Illinois 60617-5193

Clean Harbors of Chicago, Inc.  
11800 South Stony Island Avenue  
Chicago, Illinois 60617

A draft Part B Permit is hereby proposed pursuant to the Resource Conservation and Recovery Act, Illinois Environmental Protection Act, and Title 35 Ill. Adm. Code Parts 702, 703, 705, and 720 through 729 to Clean Harbors of Chicago to construct, maintain and operate a waste management facility involved in the treatment and storage of hazardous waste. Clean Harbors of Chicago, Inc. is located at 11800 South Stony Island Avenue in Chicago, Illinois.

This draft permit consists of the conditions contained herein (including those in any attachments and appendices) and applicable regulations contained in the Illinois Environmental Protection Act and Title 35 Ill. Adm. Code Parts 702, 703, 705 and 720 through 729 in effect on the effective date of this permit. The Environmental Protection Act ("Act") Ill. Rev. Stat., Ch. 111-1/2, par. 1039 grants the Illinois Environmental Protection Agency the authority to impose conditions on permits which are issued. This Permit contains 170 pages including Attachments A through G.

If you have any questions regarding this draft permit, please contact Mark A. Schollenberger at 217/524-3307.

  
Lawrence W. Eastep, P.E., Manager  
Permit Section  
Division of Land Pollution Control  
Bureau of Land

LWE:MAS:lat/sp/218Y,11

FACT SHEET  
RCRA HAZARDOUS WASTE PERMIT  
CLEAN HARBORS OF CHICAGO  
ILD000608471

This fact sheet has been prepared pursuant to the requirements of 35 Ill. Adm. Code 705.143. The fact sheet is intended to be a brief summary of the principal facts and significant factual, legal, methodological, and policy questions considered in preparing a draft Resource Conservation and Recovery Act ("RCRA") permit. This permit will allow the Illinois International Port District, as owner and Clean Harbors of Chicago as operator of the facility, to store and treat (reclaim) hazardous waste as identified in the application. Pursuant to 35 Ill. Adm. Code 705.143(a), this fact sheet is sent to the applicant and to any other person who requests it.

I. INTRODUCTION

On February 25, 1983 Chem Clear (now known as Clean Harbors of Chicago, ("CHCI")) submitted an application for a Part B Permit. In response to our letter of January 12, 1988, CHCI submitted a new application in its entirety on September 27, 1990. In response to our Notice of Deficiency on November 9, 1990, CHCI submitted a new application in its entirety on February 21, 1991. Additional revisions to this application were received in response to Notices of Deficiencies ("NOD").

NOD

April 19, 1991  
November 4, 1991

October 1, 1992  
January 29, 1993

Response

June 12, 1991  
February 17, 1992  
May 28, 1992  
December 23, 1992  
March 16, 1993

This draft permit for Clean Harbors of Chicago contains all of the standard conditions required by 35 Ill. Adm. Codes 702, 703, and 724; and the applicable conditions of 35 Ill. Adm. Code Part 724 for storage of hazardous waste in containers and tanks. This facility is an existing facility that has been operating under interim status since November 5, 1980.

II. DESCRIPTION OF FACILITY

A. General

The facility's existing hazardous waste activities include storage and treatment of aqueous-based waste streams in an on-site waste

water treatment system, and 2) storage, consolidation and transfer of containerized hazardous and nonhazardous wastes, including laboratory packed wastes (i.e., "lab packs").

The existing treatment process utilizes chemical oxidation, neutralization of concentrated acids and bases, and precipitation of metals and suspended solids to render characteristic waste streams nonhazardous.

The following Operations are Proposed:

- i) A new bulk tank storage system and treatment operation for "listed" hazardous waste liquids and solids;
- ii) A new bulk tank storage system and fuel blending operation to produce and store organic-based hazardous waste fuels which will be shipped off-site for energy recovery as a supplemental fuel;
- iii) An expanded container storage area;
- iv) An expanded lab pack storage, repack, and consolidation operation;
- v) A new storage area for bulk storage of hazardous and nonhazardous wastes in roll-off containers;
- vi) A new storage area for temporary storage of medical waste;
- vii) A new drum crushing and compacting system;
- viii) A new rail car transfer operation; and

**B. Site Description**

The facility is located on Pier No. 4 of Lake Calumet in the City of Chicago, Cook County, Illinois. The property, which is owned by the Illinois Port Authority, is approximately 400 feet wide by 2,500 feet long. The address of the facility is:

Clean Harbors of Chicago, Inc.  
11800 South Stony Island Avenue  
Chicago, Illinois 60617

The legal description of the property is provided in Appendix B-7 of the application and the location of the facility is shown in Appendix B-1 in the application.

### III. WASTE MANAGEMENT ACTIVITIES

#### A. Container Storage - Hazardous

There are two existing container storage areas for hazardous waste at this site. These areas are depicted in Appendix D-3 and Appendix D-4 in Volume 1 of the application. The indoor storage area in Building No. 2 measures approximately 26 feet by 85 feet. It is divided into four bays, a staging area, an acidic waste storage area, an alkaline waste storage area and an organic waste storage area. A total of 552 55 gallon drums may be stored in this area. The outside storage area is divided into six bays, a staging area, a reactive waste storage area, an oxidizer storage area, a poison storage area and two flammable waste storage areas and can hold a total of 688 55 gallon drums. The expansion of this area will add five more storage bays and an additional 544 55 gallon drum storage capacity.

An additional 35 55 gallon drums may be stored in the proposed lab pack building as shown in Appendix D-11 and 48 55 gallon drums may be stored in the proposed fuel blending building as shown in Appendix D-13.

Current lab packing activities, consolidation, repacking and use (the acids and bases are used as reagents in the wastewater treatment plant) are conducted in Process Building No. 1 on the mezzaine level on Chamber 3 of the reactor. A total of 8 55 gallon drums may be stored in this area.

Hazardous bulk solids are to be stored in roll-off containers as shown in (1) Appendix D-16 (six (6) 30 cubic yard containers, the proposed bulk solids storage pad) (2) Appendix B-5 (three (3) 30 cubic yard containers on the existing outdoor loading/unloading area and (3) Appendix D-13 (one (1) 30 cubic yard containers in proposed process Building No. 3).

A mobile compactor (CTI PRO 8560) with a carbon adsorption unit may be used within the container storage areas to reduce the volume of wastes.

All of these areas are provided with secondary containment to contain and control spills, leaks and precipitation in these areas. Hazardous wastes which may be stored are identified in Attachment A of the draft permit. Permit conditions in Section I of the permit are specific to container storage and implement the regulatory requirements of 35 Ill. Adm. Code 724, Subpart I.

**B. Container Storage - Nonhazardous**

There is one existing area dedicated solely to nonhazardous container storage area in Building No. 2 located underneath the filter press (one (1) 30 cubic yard container). There are four (4) proposed areas. These are:

- i) A medical waste storage pad (for two (2) 45-foot box trailers) as shown in Appendix D-16;
- ii) One (1) 30 cubic yard roll-off container in the proposed drum crusher area;
- iii) A bulking pad for solids (one (1) 30 cubic yard roll-off container as shown in Appendix D-4; and
- iv) The storage of self-contained trailers (for household hazardous wastes) on any asphalted portion of the facility.

Nonhazardous wastes are also stored in the hazardous waste storage areas.

**C. Tank Storage - Hazardous**

A brief description of the tanks at the facility is provided below.

Existing tanks, exempt from RCRA permitting, wastewater treatment units permitted pursuant to 35 Ill. Adm. Code 310.

- i) Four (4) 6,000 gallon in-ground, concrete receiving tanks;
- ii) A 212,000 gallon steel, primary settling tank;
- iii) A 424,000 gallon steel, mix tank;
- iv) A chemical treatment unit (IPSI Model #SAL2-100), 4,800 gallon steel tank;
- v) Four (4) gravitators/clarifiers (IPSI Model #ESS-075), 2,450 gallon steel tanks;
- vi) A 6,450 gallon steel, effluent collection tank;
- vii) A 180,000 gallon steel, effluent discharge tank;
- viii) A 212,000 gallon steel, sludge concentrator tank;
- ix) A 10,400 gallon steel, sludge conditioning tank;

- x) A plate and frame filter press (Netzch Model 1200/88);
- xi) A chemical reduction/oxidation pretreatment system (for hexavalent chrome, cyanide, phenolic and ammonia contaminated waste streams) consisting of (3) reactor vessels, sized at 13,000 gallons, 13,570 gallons and 5,200 gallons, respectively; each equipped with an air scrubber emission control system;
- xii) An oily wastewater pretreatment system consisting of two (2) 6,000 gallon steel, oil/water separators, a heat exchanger, a 6,000 gallon steel (oil storage) tank and a 6,000 gallon steel (cuff storage) tank;
- xiii) A carbon adsorption system (Baron-Blakeslee's Dual Bed Model No. CAV40-EX), including a water/solvent condensate separation unit designed to control organic emissions for the aerated storage/mix tanks and oil/water separators;
- xiv) A sludge dewatering system consisting of a 10,000 gallon sludge feed tank and a trailer-mounted recessed plate and frame filter press (Netzch Model 1200/88);
- xv) Two (2) 318 gallon mixing chambers;
- xvi) One (1) 880 gallon flocculation tank;
- xvii) One (1) 1,900 gallon surge tank;
- xviii) One (1) 13,000 gallon in-ground, concrete, sludge storage tank; and
- xix) One (1) 1,050 gallon surge tank.

Proposed tanks, exempt from RCRA permitting, wastewater treatment units to be permitted pursuant to 35 Ill. Adm. Code 310:

- i) A 11,780 gallon steel, sludge conditioning tank;
- ii) One (1) 13,570 gallon reactor vessel, equipped with an wet scrubber system; and
- iii) One (1) 8,835 gallon reactor vessel, equipped with an wet scrubber system.

Proposed RCRA tanks for Listed Waste Treatment and Storage:

- i) Eight (8) 11,025 gallon storage tanks;

- ii) One (1) 13,570 gallon reactor tank with wet scrubber system;
- iii) One (1) 1,200 gallon Lamella clarifier;
- iv) One (1) 4,100 gallon clarifier waste collection tank;
- v) One (1) 3,770 gallon sludge conditioning tank;
- vi) A sand filtration system consisting of two units (overall capacity 750 gallons each) with a 3,770 gallon backwash collection tank;
- vii) One (1) 2,640 gallon effluent collection tank; and
- viii) Two (2) 1300 gallon carbon adsorption units;

Proposed RCRA tanks for flammable storage/fuel blending operations:

- i) Four (4) 11,025 gallon storage tanks;
- ii) Four (4) 19,880 gallon storage tanks;
- iii) One (1) 1,225 gallon dispersion tank; and
- iv) One (1) 275 gallon overflow tank.

Hazardous wastes which may be accepted for storage/treatment in tanks are identified in Appendix A of the draft permit.

Tank system permit conditions deal with constructing, operating and maintaining the tank system in accordance with the design plans and operating specifications. Permit conditions in Section II of the draft permit are specific to tank systems for storage and implement the regulatory requirements of 35 Ill. Adm. Code Part 724, Subpart J.

**D. Standard Permit Conditions**

Standard Permit Conditions 1 to 62 are regulatory requirements of 35 Ill. Adm. Code Parts 702, 703, and 724. These conditions are of a general nature and applicable to all hazardous waste management facilities regulated pursuant to an Illinois Environmental Protection Agency ("IEPA") RCRA Permit. These conditions include the effectiveness of the permit, permit actions, severability, permit expiration, monitoring and retention of records, transfer of permits, and compliance schedules.

IV. CONSIDERED PERMIT ACTIONS OTHER THAN RCRA

A. Air

The air emissions from hazardous waste management facilities are regulated under RCRA, the Clean Air Act ("CAA"), the Illinois Environmental Protection Act and the Illinois Pollution Control Board rules and regulations in Title 35 Ill. Adm. Code, Subtitle B: Air Pollution. Under these regulations the facility is required to obtain a permit to install or operate any process which is or may be a source of air pollutants. Air emissions from the process areas, and tanks are regulated by the Division of Air Pollution Control of this Agency. The facility has one permit regulating air emissions for the mobile compactor from the Division of Air Pollution Control.

B. Water

Wastewaters generated by the facility are discharged to the sewer and regulated by the MWRDGC.

V. PROCEDURES FOR REACHING A FINAL DECISION

Pursuant to 35 Ill. Adm. Code 705.162(a)(2), the public is given forty-five (45) days to review the application and comment on the draft Permit conditions prior to IEPA taking any final permitting action on the application for this RCRA Hazardous Waste Management Permit. The comment period will begin on the date of first publication of the public notice in a major local newspaper of general circulation. The comment period will end thirty (30) days after the date of any public hearing. When the Agency makes its final Permit decision, notice will be given to the applicant and each person who has submitted written comments or requested notice of the final Permit decision. The Permit will become effective thirty-five (35) days after service of notice of the decision or at a later date if stated in the Permit.

In addition, copies of the application draft permit and fact sheet will be available for review at other locations to be identified in the Public Notice.



Any interested person may submit written comments on the draft permit, at the following address:

Illinois Environmental Protection Agency  
Government and Community Affairs Section, Director's Office  
Attention: RCRA Public Notice Clerk  
2200 Churchill Road  
Post Office Box 19276  
Springfield, Illinois 62794-9276

The administrative record is open for public inspection at the IEPA Springfield headquarters from 8:30 a.m. to 5:00 p.m., Monday through Friday. The administrative record contains the Permit application, fact sheet, and other supporting documents and correspondence submitted to the IEPA. Inspections of the administrative record must be scheduled in advance by contacting the Public Notice Clerk at the above address.

For further information, please contact Mara McGinnis, Director's Office, Illinois Environmental Protection Agency at 2200 Churchill Road, Post Office Box 19276, Springfield, Illinois 62794-9276 or by telephone at 217/524-3288.

RCRA HAZARDOUS WASTE MANAGEMENT PERMIT  
CLEAN HARBORS OF CHICAGO

ILD No. 000608471

TABLE OF CONTENTS

<u>ITEM</u>	<u>PAGE(S)</u>
General Facility Description .....	4 - 8
List of Plans and Documents Contained in the Approved Permit Application .....	9
I. Containers .....	10 - 20
II. Tank Systems .....	21 - 32
III. Reporting and Notification Requirements .....	33 - 38
IV. Corrective Action .....	39 - 51
V. Standard Conditions .....	52 - 63

LIST OF ATTACHMENTS

0316000051

PAGES

Attachment A - List of Wastes that can be Accepted at this Facility .....	64 - 103
Attachment B - Inspection Schedule .....	104 - 109
Attachment C - Construction Certification Form .....	110 - 112
Attachment D - Special Conditions .....	113 - 125
Attachment E - Closure Certification Forms .....	126 - 127
Attachment F - Required Scope of Work for A RCRA Facility Investigation .....	128 - 148
Attachment G - Approved Permit Section Identification .....	149 - 170

## DESCRIPTION OF THE FACILITY

The facility has been a RCRA waste management facility since 1980 and its present activities include: 1) storage and treatment of aqueous-based waste streams in an on-site waste water treatment system; and 2) storage, consolidation and transfer of containerized hazardous and nonhazardous wastes, including laboratory packed wastes (i.e., lab packs). Pre-RCRA activities included landfilling, injection of wastewaters into a well and neutralization of wastewaters in impoundments. The facility is located on a 26.5067 acre parcel in the City of Chicago, Cook County, Illinois at 11800 South Stony Island Avenue.

The following operations are proposed:

- i) A new bulk tank storage system and treatment operation for "listed" hazardous waste liquids and solids;
- ii) A new bulk tank storage system and fuel blending operation to produce and store organic-based hazardous waste fuels which will be shipped off-site for energy recovery as a supplemental fuel;
- iii) An expanded container storage area;
- iv) An expanded lab pack storage, repack, and consolidation operation;
- v) A new storage area for bulk storage of hazardous and nonhazardous wastes in roll-off containers;
- vi) A new storage area for temporary storage of medical waste;
- vii) A new drum crushing and compacting system;
- viii) A new rail car transfer operation; and

## WASTE MANAGEMENT ACTIVITIES

### A. Container Storage - Hazardous

There are two existing container storage areas for hazardous waste at this site. These areas are depicted in Appendix D-3 and Appendix D-4 in Volume 1 of the application. The indoor storage area in Building No. 2 measures approximately 26 feet by 85 feet. It is divided into four bays, a staging area, an acidic waste storage area, an alkaline waste storage area and an organic waste storage area. A total of 552 55 gallon drums may be stored

in this area. The outside storage area is divided into six bays, a staging area, a reactive waste storage area, an oxidizer storage area, a poison storage area and two flammable waste storage areas and can hold a total of 688 55 gallon drums. The expansion of this area will add five more storage bays and an additional 544 55 gallon drum storage capacity.

An additional 35 55 gallon drums may be stored in the proposed lab pack building as shown in Appendix D-11 or 48 55 gallon drums may be stored in the proposed fuel blending building as shown in Appendix D-13.

Current lab packing activities, consolidation, repacking and use (the acids and bases are used as reagents in the wastewater treatment plant) are conducted in Process Building No. 1 on the mezzanine level on Chamber 3 of the reactor. A total of 8 55 gallon drums may be stored in this area.

Hazardous bulk solids are to be stored in roll-off containers as shown in (1) Appendix D-16 (six (6) 30 cubic yard containers, the proposed bulk solids storage pad) (2) Appendix B-5 (three (3) 30 cubic yard containers on the existing outdoor loading/unloading area) and (3) Appendix D-13 (one (1) 30 cubic yard container in proposed process Building No. 3).

A mobile compactor (CTI PRO 8560) with a carbon adsorption unit may be used within the container storage areas to reduce the volume of wastes.

All of these areas are provided with secondary containment to contain and control spills, leaks and precipitation in these areas. Hazardous wastes which may be stored are identified in Attachment A of the draft permit. Permit conditions in Section I of the permit are specific to container storage and implement the regulatory requirements of 35 Ill. Adm. Code 724, Subpart I.

**B. Container Storage - Nonhazardous**

There is one existing area dedicated solely to nonhazardous container storage area in Building No. 2 located underneath the filter press (one (1) 30 cubic yard container). There are four (4) proposed areas. These are:

- i) A medical waste storage pad (two (2) 45-foot box trailers) as shown in Appendix D-16;

- ii) One (1) 30 cubic yard roll-off container in the proposed drum crusher area;
- iii) A bulking pad for solids (one (1) 30 cubic yard roll-off container as shown in Appendix D-4; and
- iv) The storage of self-contained trailers (for household hazardous wastes) on any asphalted portion of the facility.

Nonhazardous wastes are also stored in the hazardous waste storage areas.

**C. Tank Storage - Hazardous**

A brief description of the tanks at the facility is provided below. Existing tanks, exempt from RCRA Permitting, wastewater treatment units permitted pursuant to 35 Ill. Adm. Code 310.

- i) Four (4) 6,000 gallon in-ground, concrete receiving tanks;
- ii) A 212,000 gallon steel, primary settling tank;
- iii) A 424,000 gallon steel, mix tank;
- iv) A chemical treatment unit (IPSI Model #SAL2-100), 4,800 gallon steel tank;
- v) Four (4) gravitators/clarifiers (IPSI Model #ESS-075), 2,450 gallon steel tanks;
- vi) A 6,450 gallon steel, effluent collection tank;
- vii) A 180,000 gallon steel, effluent discharge tank;
- viii) A 212,000 gallon steel, sludge concentrator tank;
- ix) A 10,400 gallon steel, sludge conditioning tank;
- x) A plate and frame filter press (Netzch Model 1200/88);
- xi) A chemical reduction/oxidation pretreatment system (for hexavalent chrome, cyanide, phenolic and ammonia contaminated waste streams) consisting of (3) reactor vessels, sized at, 13,000 gallons, 13,570 gallons and 5,200 gallons, respectively; each equipped with an air scrubber emission control system;

- xii) An oily wastewater pretreatment system consisting of two (2) 6,000 gallon steel, oil/water separators, a heat exchanger, a 6,000 gallon steel (oil storage) tank and a 6,000 gallon steel (cuff storage) tank;
- xiii) A carbon adsorption system (Baron-Blakeslee's Dual Bed Model No. CAV40-EX), including a water/solvent condensate separation unit designed to control organic emissions for the aerated storage/mix tanks and oil/water separators;
- xiv) A sludge dewatering system consisting of a 10,000 gallon sludge feed tank and a trailer-mounted recessed plate and frame filter press (Netzsch Model 1200/88);
- xv) Two (2) 318 gallon mixing chambers;
- xvi) One (1) 880 gallon flocculation tank;
- xvii) One (1) 1,900 gallon surge tank;
- xviii) One (1) 13,000 gallon in-ground, concrete, sludge storage tank; and
- xix) One (1) 1,050 gallon surge tank.

Proposed tanks, exempt from RCRA permitting, wastewater treatment units to be permitted pursuant to 35 Ill. Adm. Code 310:

- i) A 11,780 gallon steel, sludge conditioning tank;
- ii) One (1) 13,570 gallon reactor vessel, equipped with an wet scrubber system; and
- iii) One (1) 8,835 gallon reactor vessel, equipped with an wet scrubber system.

Proposed RCRA tanks for Listed Waste Treatment and Storage:

- i) Eight (8) 11,025 gallon storage tanks;
- ii) One (1) 13,570 gallon reactor tank with wet scrubber system;
- iii) One (1) 1,200 gallon Lamella clarifier;
- iv) One (1) 4,100 gallon clarifier waste collection tank;
- v) One (1) 3,770 gallon sludge conditioning tank;

- vi) A sand filtration system consisting of two units (overall capacity 750 gallons each) with a 3,770 gallon backwash collection tank;
- vii) One (1) 2,640 gallon effluent collection tank; and
- viii) Two (2) 1,300 gallon carbon adsorption unit.

**Proposed RCRA tanks for flammable storage/fuel blending operations:**

- i) Four (4) 11,025 gallon storage tanks;
- ii) Four (4) 19,880 gallon storage tanks;
- iii) One (1) 1,225 gallon dispersion tank; and
- iv) One (1) 275 gallon overflow tank.

Hazardous wastes which may be accepted for storage/treatment in tanks are identified in Appendix A of the draft permit.

Tank system permit conditions deal with constructing, operating and maintaining the tank system in accordance with the design plans and operating specifications. Permit conditions in Section II of the draft permit are specific to tank systems for storage and implement the regulatory requirements of 35 Ill. Adm. Code 724, Subpart J.



**List of Plans and Documents  
Contained in the Approved Permit Applications**

Under Illinois solid and hazardous waste regulations, the Permittee has prepared the following formal plans and documents covering various facets of the design, operation and monitoring of hazardous waste management units. The location of each plan or document in the Approved Permit Application is also identified below.

<u>Plan or Document</u>	<u>Location in the Approved Permit Application</u>
1. Waste Analysis Plan	Section C-2
2. Inspection Plan	Section F-2
3. Contingency Plan	Section G
4. Closure Plan	Section I
5. Training Program	Section H
6. Design Plans and Operating Specifications For Containers	Section D-1
7. Design Plans and Operating Specifications For Tank Systems	Section D-2, Table D-3 through D-6

## SECTION I: CONTAINER STORAGE

### A. Summary

Containers of hazardous waste received at the facility will arrive in a variety of containers but typically in 55 gallon steel or plastic drums. Other containers may be accepted provided they are Department of Transportation ("DOT") approved, in good condition, compatible with the waste they contain and can be safely managed by facility. These containers shall only be stored in the areas designated in Condition I(B)(1).

### B. Waste Identification

1. The storage of all hazardous waste containers shall be in the areas identified below:

	<u>Maximum Containment Volume</u>	<u>Maximum Number And Type of Containers Or Equivalents</u>
a) Existing Units		
1) (Within Processing Building No. 2) and		
i) Staging area	860 gallons	72-55 gallon drums
ii) Acidic drums area	1,305 gallons	192-55 gallon drums
iii) Alkaline drums area	558 gallons	96-55 gallon drums
iv) Organic drums area	1,089 gallons	192-55 gallon drums
2) The Outside Storage Pad		
i) Unloading area	27,675 gallons	3-30 cu. yds. roll-off boxes
ii) Staging area	2,500 gallons	80-55 gallon drums
iii) Flammable Storage #1	4,693 gallons	160-55 gallon drums
iv) Flammable Storage #2	4,693 gallons	160-55 gallon drums
v) Oxidizers Storage #1	2,767 gallons	96-55 gallon drums

	<u>Maximum Containment Volume</u>	<u>Maximum Number And Type of Containers Or Equivalents</u>
vi) Reactives Storage #1	2,767 gallons	96-55 gallon drums
vii) Poisons Storage #1	2,767 gallons	96-55 gallon drums

**b. Proposed Areas**

- 1) Expansion of Existing Outside Storage Area
  - i) Flammable Storage #3 4,693 gallons 160-55 gallon drums
  - ii) Oxidizers Storage #2 2,767 gallons 96-55 gallon drums
  - iii) Reactives Storage #2 2,767 gallons 96-55 gallon drums
  - iv) Poisons Storage #2 2,767 gallons 96-55 gallon drums
  - v) Staging Area 3,031 gallons 96-55 gallon drums
- 2) The Lab Pack Building
  - i) Acids Storage Area 63 gallons 5-55 gallon drums
  - ii) Bases Storage Area 63 gallons 5-55 gallon drums
  - iii) Organics Storage Area 63 gallons 5-55 gallon drums
  - iv) Oxidizers Storage Area 71 gallons 5-55 gallon drums
  - v) Pesticides Storage Area 83 gallons 5-55 gallon drums
  - vi) Organics pour-off area 71 gallons 4-55 gallon drums
  - vii) Flammables Storage Area 83 gallons 6-55 gallon drums
- 3) The Fuel Blending Building 6,489 gallons 48-55 gallon drums
- 4) Process Building No. 3 and 14,697 gallons 1-30 cu. yds.  
roll-off boxes
- 5) The Bulk Solids Storage Pad 1,426 gallons  
per bay 6-30 cu. yds  
roll-off boxes

- 2) The Permittee may receive and store the hazardous waste identified in Attachment A in containers and any nonhazardous waste which has been approved by this Agency through a supplemental waste stream permit. All nonhazardous waste must be evaluated through the waste analysis plan for compatibility.
- 3) The Permittee is prohibited from storing a hazardous waste that has not been identified in Attachment A.
- 4) Only those containers that hold wastes that do not contain free liquids (i.e., passes the paint filter test identified in 35 Ill. Adm. Code 729.320) may be stored in the container storage area identified in Condition I(B)(1)(b)(5).
- 5) The Permittee is prohibited from adding additional container storage areas without the appropriate permit modification in accordance with 35 Ill. Adm. Code 703 Appendix A.

**C. Condition of Containers**

1. If a container holding waste is not in good condition (e.g., severe rusting, apparent structural defect, etc.) or if it begins to leak (this includes waste which appears on the outside of the drum/box but has not spread to the containment base or other containers), the Permittee must immediately transfer the waste from this container to a container that is in good condition or manage the waste in accordance with the Approved Permit Application.
2. Any transfer of waste which was required to comply with I(C)(1), must be recorded in a separate log and maintained as part of the facilities operating record.
3. Packaging of all wastes accepted for storage in the container storage area shall meet the requirements of 49 CFR 172, 178 and 179 and all applicable D.O.T. and N.F.P.A. regulations. All containers must be marked and placarded in accordance with 49 CFR 172.
4. The contents of each container shall be clearly identified on the side of the container in accordance with 49 CFR 172 prior to being placed in the container storage area.

**D. Compatibility of Waste With Containers**

The Permittee must use a container made of or lined with material which will not react with and is otherwise compatible with the waste to be

stored so that the ability of the container to contain the waste is not impaired.

**E. Management of Containers**

The Permittee shall comply with the following management practices:

1. A container holding waste must always be closed during storage, except when it is necessary to add or remove or sample waste.
2. A container holding waste must not be opened, handled, or stored in a manner that may rupture the container or cause it to leak.
3. All aisles between each row of pallets and between pallets and a wall in a pile must be a minimum of two feet wide. This is necessary to provide adequate access for the inspection of each container.
4. Containers may be stacked provided that:
  - a. Only the same size or smaller containers are stacked on top of the containers beneath; and
  - b. Containers are separated by a pallet or other dunnage to provide stability.
  - c. Drums may be stacked six and one half feet high in the non-flammable storage areas.
  - d. Drums may not be stacked in the flammable storage areas.
5. The containers shall be clearly marked with the date received prior to being placed into storage.
6. The following management practices apply to arrangements of containers that contain one or more containers of flammable or combustible liquids as defined in NFPA 30.
  - a. Each arrangement of containers (pile) as defined below shall be separated from other arrangements by a five foot aisle. The maximum volume of containers in each arrangement shall not exceed the following:
    - i. 1,100 gallons for arrangements with one or more containers of waste which have a flash point below 73°F and a boiling point below 100°F.

- ii. 2,200 gallons for arrangements with one or more containers of waste having a flash point below 73°F and a boiling point above 100°F.
  - iii. 4,400 gallons for arrangements with one or more containers of waste having a flash point at or above 73°F and below 100°F.
  - iv. 8,800 gallons for arrangements with one or more containers of waste having a flash point at or above 100°F and below 140°F.
  - v. 22,000 gallons for arrangements which do not contain D001 wastes.
- b. An aisle that is a minimum of two feet wide must be maintained within the arrangement between each row of pallets and between pallets and a wall in a pile. This is necessary to provide adequate access for the inspection of each container.

**F. Inspection**

The Permittee shall inspect the container storage area weekly in accordance with the inspection schedule specified in Attachment B to this Permit. The inspection must be adequate to detect leaks and deterioration of containers and the containment system caused by corrosion or other factors. The procedures described in the approved permit application must be used with the following modifications:

1. Action shall be taken to immediately overpack a leaking or deteriorating drum or to transfer the waste to a container in good condition. Appropriate action to clean up any release of waste from a leaking or deteriorated drum shall be carried out immediately after the drum has been overpacked or the waste transferred to a container in good condition.
2. If a portion of the containment system is found to be in a deteriorated condition (cracks, gaps, spalling, failure of the coating, etc.) the Permittee shall immediately remove all waste containers from the deteriorated area until the containment system has been repaired.
3. The container loading/unloading area shall be inspected daily for spills and releases. If spills and releases are observed, such releases shall immediately be remediated in accordance with ~~III~~ all applicable regulations and special conditions found herein. Results of this inspection and a description of the corrective action taken, if necessary, shall be documented in the inspection log.

4. The weekly inspection shall include checking aisle space, height of stacks and remaining capacity.
5. Results of all inspections and the activities undertaken to correct deficiencies shall be documented in the operating record for the facility.

**G. Containment**

The Permittee shall construct, operate and maintain the containment system according to the design plans and operating specifications contained in the Approved Permit Application, subject to the following modifications.

1. Clean Harbors shall perform a complete inspection of the surface coating yearly and perform annual maintenance to insure the integrity of the coating. Clean Harbors shall document the date of the surface coating inspection and any maintenance of the surface coating. These inspections must be performed no later than December 31, of each year.
2. It shall not be an act of non-compliance if the coating has been installed properly but does not live up to the manufacturer's printed performance standards and fails due to excessive wear or chemical breakdown. The Permittee shall notify the Agency within thirty days of becoming aware of the failure. The Permittee shall reapply a different coating specified in the approved permit application or submit a modification of its permit to install a new coating within 180 days of the failure of the coating.

**H. Special Requirements for Ignitable or Reactive Waste**

1. The Permittee shall not locate containers which hold ignitable or reactive waste within 50 feet of the facility's property line.
2. The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable waste.
3. Ignitable wastes must be separated and protected from sources of ignition or reaction including but not limited to:
  - a. Open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (e.g., static, electrical, or mechanical), spontaneous ignition (e.g., from heat producing chemical reactions), and radiant heat.
  - b. While ignitable waste is being handled, the Permittee must confine smoking and open flame to specially designated locations.

- c. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable waste.

**I. Special Requirements for Incompatible Waste**

1. The Permittee shall not store containers holding a material that is incompatible with any waste or other materials stored nearby, unless separated from other waste/materials or protected from them by means of a dike, berm or other devices. Incompatible materials are defined in Attachment D to this permit.

**J. General Operating Requirements**

The Permittee shall operate the container storage area in accordance with the approved permit application, subject to the following modifications:

1. The Permittee may receive hazardous waste for storage in containers provided the following requirements are met.
  - a. The material must be a waste which has been identified in Attachment A to this permit.
  - b. The waste must be analyzed in accordance with all applicable regulations and the approved waste analysis plan.
  - c. The facility must have a special waste stream permit or generic permit to receive the waste.
  - d. The waste must be accompanied by a properly completed Illinois manifest.
2. Cleanup of all spills inside the secondary containment areas must begin immediately upon discovery and be completed within 24 hours. Secondary containment must be inspected immediately after cleanup for cracks, gaps or other defects (failure of the coating) which would allow waste to migrate to the underlying soil. If any deterioration is discovered, the permittee shall immediately remove all waste from the deteriorated area. All cleanup operations shall be documented in the facility's operating record.
3. The Permittee shall remove any precipitation which accumulates in the secondary containment system within 24 hours of the time such accumulation is discovered.



4. All hazardous and nonhazardous special wastes stored or generated by this facility which require further treatment or disposal off-site must be transported to the receiving facility in accordance with the applicable regulations in 35 Ill. Adm. Code Parts 709, 702, 723, 307 and 309, and the Agency's Supplemental Waste Stream Permit and Manifest System.
5. The Permittee shall obtain in authorization from the Agency under the provisions of Section 39(h) of the Illinois Environmental Protection Act for each hazardous wastes stream to be disposed in an Illinois permitted hazardous waste landfill prior to shipping the waste to the landfill. To obtain this authorization, the Permittee must demonstrate that, considering technological feasibility and economic reasonableness, the hazardous waste cannot be reasonably recycled for reuse, nor incinerated or chemically, physically or biologically treated so as to neutralize the hazardous waste and render it nonhazardous.

**K. General Construction Requirements**

1. The Permittee is authorized to construct the proposed Container Management Units identified in Section I.B.1.b. The container storage areas may only be constructed in accordance with the approved Permit Application, subject to the following modifications:
  - a. Within thirty days after completing construction and prior to any container of waste being placed or stored in the container storage areas, the Permittee shall submit to the Agency a certification from a qualified, registered professional engineer, demonstrating that the container storage area meets the requirements of 35 Ill. Adm. Code 724.275(b). This certification document shall contain the information required in Attachment C and a statement that the base slab is free of cracks or gaps.
  - b. The Permittee may not store wastes in these areas until the construction certification is approved.

**L. Closure**

At closure, all waste and waste residues must be removed from the containment system. Remaining containers, liners, bases, and soil containing or contaminated with waste or waste residue must be decontaminated or removed. Closure of the container storage areas shall

be carried out in accordance with the closure plan in the approved Permit Application, as modified below:

1. The Permittee shall notify the Agency's Division of Land Pollution Control in writing of its intent to close the container storage areas at least 180 days prior to the date closure is expected to begin. Along with this notification, the Permittee shall submit the sampling and analysis plan to be used in demonstrating a storage area has been properly decontaminated. Closure shall not begin without written approval from the Agency's Division of Land Pollution Control. Agency review of this plan will be subject to the permit appeal provisions contained in Section 39(a) and Section 40(a) of the Act. The response from the Agency shall approve and establish:
  - a. The sampling plan;
  - b. What contaminants must be analyzed for; and
  - c. The level at which decontamination is considered complete.
2. The concrete surfaces shall be visually inspected, photographed and any residue adhering to the surface must be removed by scraping and/or brushing. Following this, the concrete surfaces must be steam cleaned and triple rinsed. All wash and rinse water shall be collected and managed as a hazardous waste, unless the Permittee can document that the waste is not hazardous as defined in 35 Ill. Adm. Code 721.103. An independent, registered, professional engineer must certify that the surface has no cracks, gaps or other defects which would allow waste to migrate through to the underlying soil or sampling in accordance with an approved sampling plan, shall be conducted to verify the underlying soil is uncontaminated.
3. Sweepings, washwaters and rinsates collected during closure of the container storage area shall be managed as a hazardous waste, unless the Permittee can document that the waste is not hazardous as defined in 35 Ill. Adm. Code 721.103.
4. The Permittee shall provide post-closure care in accordance with 35 Ill. Adm. Code Part 724, Subpart G for the container storage areas in the event all of the hazardous wastes or contaminated soils cannot be practicably removed or decontaminated in accordance with the approved closure plan identified in Condition I(L)(1). If it is determined that the closure requirements cannot be met and post-closure care is required, this Permit must be modified to require post-closure care for the container storage areas, in accordance with 35 Ill. Adm. Code Subtitle G, Part 724, Subparts G and H.

5. Should post-closure care, as described in Condition I(L)(4) above, become necessary, the Permittee shall submit an application for modification to this permit, including an amended closure and post-closure care plan for this unit. The application must be submitted within thirty (30) days following discovery that clean closure cannot be accomplished. If a determination is made to not pursue clean closure prior to the implementation of the closure plan for the container storage area, the modification request shall be made no later than sixty (60) days after the determination is made.
6. Financial assurance for closure and post-closure of the container storage areas, if required in accordance with Condition I(L)(4) and I(L)(5) above, shall be provided within thirty (30) days following modification of the permit.
7. Within sixty (60) days after closure of the container storage areas has been completed, the Permittee shall submit certification to the Agency that the unit has been closed in accordance with the approved closure plan. The closure certification form in Attachment E to this permit or a certification with identical wording must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer (registered in the State of Illinois) should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the area(s) until the Agency approves the closure certification for the unit. The Agency's review of closure certification for partial or final closure will be conducted in accordance with 35 Ill. Adm. Code 724.243.

A Closure Documentation Report must be submitted with the closure certification which includes the following items, if applicable:

- a. The volume of waste and waste residue removed, including wastes resulting from decontamination activities;
- b. A description of the method of waste handling and transport;
- c. Copies of the waste manifests;
- d. A description of the sampling and analytical methods used including sample preservation methods and chain-of-custody information;
- e. A chronological summary of closure activities and the cost involved;

- f. Tests performed, methods and results;
  - g. Color photographs of closure activities which document conditions before, during and after closure; and
  - h. A scale drawing of all excavated or decontaminated areas and sample locations.
8. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. Do not create regulated waste pile units by storing the excavated hazardous waste in piles. The permit exemption (35 Ill. Adm. Code 722.134) only applies to containers and tanks.
9. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
10. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code, Section 724.211, the Agency reserves the right to amend the closure plan. Revisions of closure plans are subject to the appeal provisions of Section 40 of the Act.
11. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1228) may apply to your facility due to the management of RCRA hazardous waste. In addition, please be advised that if you store or treat on-site generated hazardous waste in containers or tanks pursuant to 35 Ill. Adm. Code 722.134, those units are subject to the closure requirements incorporated by reference in 35 Ill. Adm. Code 722.134.

## SECTION II: TANK SYSTEMS

### A. Summary

The tanks at the Clean Harbors of Chicago facility are used for a variety of purposes, including wastewater treatment units (pursuant to 35 Ill. Adm. Code 310), and hazardous waste storage and treatment units (pursuant to 35 Ill. Adm. Code 724). Of these uses, the storage and treatment of hazardous waste are the only uses that are regulated under RCRA. Associated with these activities are twenty seven proposed above-ground tanks. All above-ground tanks will have secondary containment consisting of a concrete vault and an impermeable membrane or coating which has been applied to the concrete.

### B. Waste Identification

1. The Permittee may store a total volume (in gallons) of waste in the tanks listed below subject to the terms of this permit.

<u>Tank Numbers</u>	<u>No. of Units</u>	<u>Description</u>	<u>Capacity In gallons</u>	<u>Minimum Shell Thickness of Tank (inches)</u>	<u>Material of Construction</u>
121	(6)	Storage Tanks	11025	3/16	Carbon Steel
155	(2)	Storage Tanks	11025	3/16	Carbon Steel
158	(4)	Storage Tanks	11025	3/16	Carbon Steel
159	(4)	Storage Tanks	19,880	3/16	Carbon Steel
123	(1)	Reactor vessel	13,570	3/16	FRP
137	(1)	Lamella clarifier	1,200	3/16	Carbon Steel
138	(1)	Clarifier Waste Collection Tank	4,100	3/16	Carbon Steel
142	(1)	Sludge Conditioning Tank	3,770	3/16	Carbon Steel
149	(2)	Sand Filter	750	3/32	Carbon Steel
150	(1)	Backwash Collection Tank	3,770	3/16	Carbon Steel

<u>Tank Numbers</u>	<u>No. of Units</u>	<u>Description</u>	<u>Capacity In gallons</u>	<u>Minimum Shell Thickness of Tank (inches)</u>	<u>Material of Construction</u>
153	(1)	Treated Effluent Tank	2,640	3/16	Carbon Steel
152	(2)	Carbon Adsorption Unit	1,300	3/16	Carbon Steel
161-21	(1)	Dispersion Tank	1,225	3/16	Carbon Steel
161-22	(1)	Overflow Tank	275	3/16	Carbon Steel

2. The Permittee may store the wastes identified in Attachment A to this permit in the tanks specified above and any nonhazardous waste which has been approved by this Agency through a Supplemental Waste Stream permit. All nonhazardous waste must be evaluated through the waste analysis plan for compatibility.
3. Storage of hazardous waste in tanks other than those specifically identified in II(B)(1) is prohibited.

**C. Containment and Detection of Releases**

1. The Permittee shall provide secondary containment which meets the requirements of 35 Ill. Adm. Code 724.293 (as amended 7/16/87) for each tank identified above.
2. The Permittee shall construct, operate, and maintain the tank system according to the detailed plans and reports contained in the approved permit application.
3. Clean Harbors of Chicago shall perform a complete inspection of the surface coating yearly and perform annual maintenance to insure the integrity of the coating. It shall not be an act of non-compliance if the coating has been installed properly but does not live up to the manufacturer's printed performance standards and fails due to excessive wear or chemical breakdown. The Permittee shall notify the Agency within thirty days of becoming aware of the failure. The Permittee shall reapply a different coating specified in the approved permit application or submit a modification of its permit to install a new coating within 180 days of the failure of the coating. Clean Harbors shall document the date of the surface coating inspection and any maintenance of the surface coating. These inspections must be performed no later than December 31, of each year.

4. The Permittee shall inspect all secondary containment sumps daily and remove all liquids contained in the sumps within 24 hours.

**D. General Construction Requirements**

1. The Permittee is authorized to construct all proposed tank systems listed in Condition II(B)(1)(b) (including all tanks, ancillary equipment and secondary containment). These tank farms may only be constructed in accordance with the approved permit application, subject to the following modifications:

- a. Within thirty days after completing construction and prior to any waste being placed or stored in a tank or its corresponding ancillary equipment, the Permittee shall submit to the Agency a certification from an independent qualified, registered professional engineer. The certification must demonstrate that the tank system meets the requirements of 35 Ill. Adm. Codes 724.292 and 724.293. The certification shall contain the information described in Attachment C and the additional information listed below:

1. A report documenting the new tank system was inspected for the presence of the following items:
  - i. weld breaks;
  - ii. punctures;
  - iii. scrapes of the protective coatings on the tank or secondary containment system;
  - iv. cracks;
  - v. corrosion;
  - vi. other structural damage or inadequate construction/installation; and
  - vii. cracks or gaps in the base slab.

All defects noted during this inspection must be remedied prior to covering, enclosing or placing the tank system in use.

2. A copy of the leak test performed on all of the new tanks and ancillary equipment, including a description of any repairs performed on the system to remedy the leak(s).
  3. Certification that the tanks and ancillary equipment were designed and installed in a manner that is supported and protected against physical damage and excessive stress due to settlement, vibration, expansion or contraction.
- b. The Permittee may not store wastes in these areas until the construction certification is approved. The Agency shall review the certification described above to ensure the tank systems and their secondary containment meets the requirements of 35 Ill. Adm. Codes 724.292 and 724.293.

**E. General Operating Requirements**

1. The Permittee shall not place hazardous wastes in a tank system if they could cause the tank, its ancillary equipment, or the containment system to rupture, leak, corrode, or otherwise fail.
2. The Permittee shall use appropriate controls and practices to prevent spills and overflows from tank or containment systems using the methods specified in the Approved Permit Application.
3. In the event of a leak or a spill in the tank system, the Permittee shall comply with the practices and procedures described in the approved permit application and notify the Agency's DLPC in accordance with Condition II(I)(1). All reported leaks or spills must be recorded in the Facility's Operating Record.
4. The Permittee shall obtain an authorization from the Agency under the provisions of Section 39(h) of the Act for each hazardous waste stream to be disposed in an Illinois permitted hazardous waste landfill prior to shipping the waste to the landfill. To obtain his authorization, the Permittee must demonstrate that, considering technological feasibility and economic reasonableness, the hazardous waste cannot be reasonably recycled for reuse, nor incinerated or chemically, physically or biologically treated so as to neutralize the hazardous waste and render it nonhazardous.
5. All hazardous wastes to be received at the tank storage area must be identified in Attachment A to this permit and have been analyzed per all applicable regulations and the requirements identified in the waste analysis plan. In addition, all hazardous and nonhazardous special wastes received at the facility must be permitted by an IEPA issued special waste permit and be accompanied by a properly completed Illinois manifest.



6. An employee of the facility shall be present at all times when waste is being transferred from a tank truck to the receiving tank.
7. Precipitation accumulating within the tank farm shall be removed within 24 hours after the precipitation event has ended.

**F. Tank System Certification**

1. The Permittee shall obtain and keep on file at the facility written statements by those persons required to certify the design of the tank system and supervise the installation of the tank system as required by 35 Ill. Adm. Code 724.292(g).
2. The Permittee shall obtain and keep on file at the facility a written assessment of the new tank system's integrity (35 Ill. Adm. Code 724.292(a)). The assessment shall be certified by an independent, qualified registered professional engineer in Illinois.

**G. Response to Leaks or Spills**

In the event of a leak or a spill from the tank system, from a secondary containment system, or if a system becomes unfit (i.e., failure of the coating) for continued use, the Permittee shall remove the system from service immediately and complete the following actions: (35 Ill. Adm. Code 724.296(a)-(f)).

1. Stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release.
2. Remove all waste as necessary from the system within 24 hours of the detection of the leak to prevent further release and to allow inspection and repair of the system. If the Permittee finds that it will be impossible to meet this time period, the Permittee shall notify the Agency and demonstrate that the longer time period is required.

If the collected material is a RCRA hazardous waste, it must be managed in accordance with all applicable requirements of 35 Ill. Adm. Code Parts 722-724.

3. Contain visible releases to the environment. The Permittee shall immediately conduct a visual inspection of all releases to the environment and based on that inspection: (1) prevent further migration of the leak or spill to soils or surface water and (2) remove and properly dispose of any visible contamination of the soil or surface water.

4. Close the system in accordance with the Closure Plan, contained in the approved Permit Application, unless the following actions are taken:
  - a. For a release caused by a spill that has not damaged the integrity of the system, the Permittee shall remove the released waste and make any necessary repairs to fully restore the integrity of the system before returning the tank system to the service.
  - b. For a release caused by a leak from the primary tank system to the secondary containment system, the Permittee shall repair the primary system prior to returning it to service.

H. Inspections

1. The owner or operator must inspect in accordance with the inspection schedule in Attachment B to this Permit.
2. If a leak or spill is observed during the daily inspections, the Permittee shall immediately remove the tank system in question from service and follow the procedures set forth in 35 Ill. Adm. Code 724.296.
3. Precipitation accumulating in the sumps of the secondary containment system at the loading dock shall be removed within 24 hours after the precipitation event has ended.
4. Releases of hazardous waste from spills and leaks which are observed in the secondary containment system shall also be removed within the same operating shift and managed as a hazardous waste.
5. The bulk liquid unloading area shall be inspected in the following manner:
  - a. The area shall be inspected for the presence of spills and releases after each truck has been unloaded. If observed, such releases shall be cleaned up immediately.

Documentation of these inspections and any corrective actions taken shall be included in the operating record for the facility.

6. The Permittee shall inspect each tank system to assess its condition. This inspection shall consist of a visual inspection, a pressure test and an ultrasonic thickness test in accordance with the following procedures:
- a. An ultrasonic thickness test shall be conducted annually on the carbon steel tanks.
  - b. A hydrostatic leak test or other integrity assessment as approved by the Agency shall be conducted annually on the tank ancillary equipment.
  - c. A detailed visual inspection of the carbon steel tank's interior shall be conducted every fifth year to ensure the tank's integrity. During this internal inspection, the internal surface shall be inspected for rust, cracks and thin areas. Corrective action as specified by a qualified registered professional engineer or corrosion technician shall be taken if the internal inspection indicates that the interior surface of a tank system has been detrimentally affected by the hazardous waste which has been stored in it.
  - d. For all FRP Tanks; a detailed visual inspection of the tank's interior shall be conducted on an annual basis to ensure the tank's integrity. During this internal inspection, the interior surface shall be inspected for softening, indentations, cracks, exposed fibers, aging, checking, lack of surface resins, delamination, translucency/discoloration, air bubbles and thin areas. Corrective action as specified by the manufacturer of these tanks shall be taken if the internal inspection indicates that the interior surface of a tank system has been detrimentally affected by the hazardous wastes which have been stored in it.
  - e. Tanks shall be entered in accordance with 29 CFR 1910.94(d)(11). The first internal inspection shall be conducted within five years after a proposed tank becomes operational.
  - f. The inspection of each tank shall be certified by a qualified, registered professional engineer, or corrosion technician.
  - g. All waste and washwater generated during evacuation of the tanks shall be managed as a hazardous waste, unless the Permittee can document that the waste is not hazardous as defined in 35 Ill. Adm. Code 721.103.

- h. Results of the inspection shall be submitted to the Division of Land Pollution Control of this Agency within 60 days of the inspection date, and shall also be included in the operating record of this facility.
- i. If the results of these inspections indicate a tank system is leaking, the procedures set forth in 35 Ill. Adm. Code 724.296 (as amended July 16, 1987) shall be followed.

**I. Reporting and Recordkeeping**

- 1. The Permittee shall report to the Agency's Division of Land Pollution Control Field Office within twenty-four (24) hours when a leak or spill occurs in the tank system or secondary containment system unless the spill or leak of hazardous waste is less than or equal to one pound in quantity and it is immediately contained and cleaned up.
- 2. Within thirty (30) days of detecting a release as described above to the environment from the tank system or secondary containment system, the Permittee shall report the following information in writing to the Division of Land Pollution Control of this Agency:
  - a. Likely route of migration of the release.
  - b. Characteristics of surrounding soil (including soil composition, geology, hydrogeology, and climate).
  - c. Results of any monitoring or sampling conducted in connection with the release.
  - d. Proximity to downgradient drinking water, surface water, and populated areas.
  - e. Description of response actions taken or planned.
- 3. The Permittee shall submit to the Agency all certifications of major repairs to correct leaks within seven days from returning the tank system to use (35 Ill. Adm. Code 724.296(f)).

**J. Special Requirements for Ignitable or Reactive Wastes**

- 1. The Permittee shall not place ignitable waste in the tank system, unless the procedures specified in the Approved Permit Application are followed.

2. The Permittee shall comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1990).
3. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable waste.

**K. Special Requirements For Incompatible Wastes**

1. The Permittee shall not place incompatible wastes together in the same tank system. The facility shall not store waste in a tank which previously held an incompatible waste, unless the tank system has been decontaminated. Incompatible wastes are identified in Attachment D of this Permit.

**L. Closure**

At closure, all waste and waste residues must be removed from tanks, discharge control equipment and discharge confined structures. Closure of the tank storage area shall be carried out in accordance with the closure plan in the approved permit application, as modified below:

1. The Permittee shall notify the Agency's Division of Land Pollution Control in writing of its intent to close the tank system at least 180 days prior to the date closure is expected to begin. Along with this notification, the Permittee shall submit the sampling and analysis plan to be used in demonstrating a tank system has been properly decontaminated. The plan shall be approved by the Agency's Division of Land Pollution Control in writing prior to being implemented. Agency review of this plan will be subject to the permit appeal provisions contained in Section 39(a) and Section 40(a) of the Act. The response from the Agency shall approve and establish:
  - a. The sampling plan;
  - b. What contaminants must be analyzed for; and
  - c. The level at which decontamination is considered complete.
2. The concrete surfaces shall be visually inspected, photographed and any residue adhering to the surface must be removed by scraping and/or brushing. Following this, the concrete surfaces must be steam

cleaned and triple rinsed. All wash and rinse water shall be collected. For tank systems which include secondary containment systems which met the requirements of 35 Ill. Adm. Code 724.293 at the time of installation, the secondary containment must be certified by an independent, registered, professional engineer indicating that the surface has no cracks, gaps or other defects which would allow waste to migrate through to the underlying soil. If such a certification cannot be made, soil sampling and analysis must be conducted to establish clean closure.

Sweepings collected during closure of any tank system shall be managed as a hazardous waste. All washwater and rinsate generated during the closure of these units shall also be managed as a hazardous waste.

3. The Permittee shall provide post-closure care in accordance with 35 Ill. Adm. Code Part 724 for a tank system if all of the hazardous wastes or contaminated soils cannot be practicably removed or decontaminated in accordance with the closure requirements outlined in this permit and in the approved closure plan. If it is determined that the closure requirements cannot be met and post-closure care is required, the tank system shall be considered to be a landfill and the post-closure care plan in the approved application will be modified as required to provide adequate post-closure care for the affected tank system(s) in accordance with 35 Ill. Adm. Code, Subtitle G, Part 724, Subparts G and H.
4. Should post-closure care, as described in Condition 3 above, become necessary, the Permittee shall submit an application for modification to this permit, including an amended closure plan and post-closure care plan for the affected tank system within thirty (30) days following discovery that clean closure cannot be accomplished. If a determination is made not to pursue clean closure prior to the implementation of the closure plan for the tank system, the modification request shall be made no later than sixty (60) days after the determination is made.
5. Financial assurance for closure and post-closure of any tank system being closed as a landfill, when required in accordance with Conditions 3 and 4 above, shall be updated within thirty (30) days following modification of the permit under the provisions of Condition 4 above.
6. Within sixty (60) days after closure of any tank system is complete, the Permittee shall submit certification to the Agency that the unit has been closed in accordance with the approved closure plan.

The closure certification form in Attachment E to this permit or a certification with identical wording must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. This might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for each tank system identified in Condition B.1 above. Documents regarding financial assurance for closure of this facility may be modified after the Agency approves the closure certification for any or all of the tank systems. The Agency's review of closure certifications for partial or final closure will be reviewed in accordance with 35 Ill. Adm. Code 724.243.

A Closure Documentation Report must be submitted with the closure certification which includes the following items, if applicable:

- a. The volume of waste and waste residue removed, including wastes generated during decontamination procedures.
  - b. A description of the method of waste handling and transport.
  - c. Copies of the waste manifests.
  - d. A description of the sampling and analytical methods used.
  - e. A chronological summary of closure activities and the cost involved.
  - f. Tests performed, methods and results.
  - g. Color photographs of closure activities which document conditions before, during and after closure.
  - h. A scale drawing of all excavated or decontaminated areas and sample locations.
7. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. The permit exemption (35 Ill. Adm. 722.134) only applies to containers and tanks.

8. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
9. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code 724.211, the Agency reserves the right to amend the closure plan. Revisions of closure plans are subject to the appeal provisions of Section 40 of the Act.
10. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1228) may apply to your facility due to the management of RCRA Hazardous Waste. In addition, please be advised that if you store, or treat on-site generated hazardous waste in containers or tanks pursuant to 35 Ill. Adm. Code 722.134, those units are subject to the closure requirements incorporated by reference in 35 IAC 722.134.



### SECTION III: REPORTING AND NOTIFICATION REQUIREMENTS

The reporting and notification requirements of each section of the RCRA permit are summarized below. This summary is provided to highlight the various reporting and notification requirements of this permit.

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
SECTION I: CONTAINERS		
G(2)	Submit written notification to the Agency of failure	Within thirty days of becoming aware of the failure
G(2)	Submit application for modification of the permit	If necessary, no later than 180 days after failure of the coating
K(1)	Submit certification and report for proposed container storage units	30 days after completing the construction of the container storage area
L(1)	Submit written notification to the Agency of intent to close the container storage area	180 days prior to commencement of closure
L(1)	Submit sampling and analysis plan for review	180 days prior to commence of closure
L(5)	Submit application for modification of permit and post-closure care plan	No later than 30 days after determination that the container storage area cannot be clean closed
L(6)	Update financial assurance to include modification in Conditions I(K)(4) or I(K)(5)	30 days after permit is modified
L(7)	Submit certification for closure of the container storage area	Within 60 days after closure is completed

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
SECTION II: TANK SYSTEMS		
C(3)	Submit written notification to the Agency of failure	Within thirty days of becoming aware of the failure
C(3)	Submit application for modification of the permit	If necessary, no later than 180 days after failure of the coating
D(1)(a)	Submit certification and report for the proposed tanks as required by 35 IAC 724.292 and 724.293	30 days after completing the construction of the tank systems
H(6)(h)	Submit results of tank integrity assessment	60 days after inspection
I(1)	Notify Agency of a leak or spill unless the spill or leak of hazardous waste is less than or equal to one pound and it is immediately contained and cleaned up	24 hours after leak or spill occurs
I(2)	Submit report to the Agency on release and Permittee's response	30 days after leak or spill occurs
I(3)	Submit certification of major repairs	Within seven days from returning tank system to service
L(1)	Submit written notification to the Agency of intent to close tank system(s)	180 days prior to commencement of closure
L(1)	Submit sampling and analysis plan	180 days prior to commencement of closure
L(4)	Submit application for permit modification and post-closure care plan	30 days after determination that a tank system must be closed as a landfill

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
L(5)	Update Financial Assurance for closure or post-closure	30 days after effective date of permit or modification of permit
L(6)	Submit certification of closure of tank system(s)	60 days after closure of tank system(s) is complete
SECTION IV: CORRECTIVE ACTION		
B	Submit a RCRA Facility Investigation (RFI) Phase 1 Workplan	within 6 months after effective date of this permit
SECTION V: STANDARD CONDITIONS		
6	Complete application for new permit	180 days prior to permit expiration
11	Information requested by Agency and copies of records required to be kept by this permit	Submittal date to be determined by Agency
14	Written notification to the Agency of planned physical alterations or additions	15 days prior to planned change
15	Written notification to the Agency of changes which may result in permit noncompliance	Within 15 days of change
16	Application for permit modification indicating permit is to be transferred	At least 90 days prior to transfer date
18	Submission of any information required in a compliance schedule	14 days after each schedule date
19	Report to Agency any non-compliance which may endanger health or environment	

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
	by telephone	24 hours after discovery
	in writing	5 days after discovery
20	Report all other instances of noncompliance	March 1 of each year along with Annual Report
27	Notify the Regional Administrative in writing of expected receipt of hazardous waste from a foreign source	4 weeks prior to receipt of waste
39	Update arrangements with local authorities	At least annually
41	Implementation of Contingency Plan	
	Notify appropriate state and local agencies with designated response roles	As needed
	Notify appropriate local officials	Immediately, if emergency coordinator's assessment indicates evacuation of local area is advisable
	Notify the Agency (217/782-3637) or Illinois ESDA (217/782-7860) if emergency coordinator determines there has been a release, fire or explosion which could threaten human health or the environment, outside the facility	Immediately after determination made
	Notify Agency and appropriate state and local authorities, in writing that facility is in compliance with 35 Ill. Adm. Code 724.156(h)	Prior to resuming operation in affected areas

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
	Written Report to Agency details regarding incident which required implementation of contingency plan	15 days after event
47	Submit annual report required by 35 Ill. Adm. Code 724.175	March 1 of each year
49	Submit Application for permit modification amending closure plan	Within 90 days of discovery of need for modification
50	Written notification to the Agency of closure	180 days prior to beginning closure
54(a)	Adjust closure cost estimate for inflation	Within 60 days prior to anniversary date of the establishment of the financial instrument
54(b)	Revision of closure cost estimate	As needed, within 90 days of discovery of revision
55	Change in financial assurance mechanism for closure	As needed
56	Change in coverage for sudden and non-sudden accidental occurrences	As needed
57	Written notification to the Agency of commencement of voluntary or involuntary bankruptcy proceedings	10 days after commencement of proceeding
ATTACHMENT D: ADDITIONAL SPECIAL CONDITIONS		
C(1)	submit closure plan	180 days prior to closure of any hazardous waste management unit

<u>Condition</u>	<u>Submittal</u>	<u>Due Date</u>
F(2)	Notify Emergency Response Teams	Immediately upon implementation of contingency plan
F(3)	Documentation of submittal of required information to Emergency Response entities	within 60 days of the effective date of this permit
F(4)	Documentation of agreements/arrangements with local units	within 60 days of the effective date of this permit
F(6)	Submit revised contingency plan	within 60 days of the effective date of this permit

SECTION IV  
CORRECTIVE ACTION

A. Introduction

In accordance with Section 3004 of RCRA and Ill. Adm. Code 724.201, the Permittee shall institute such corrective action as necessary to protect human health and the environment from all releases of hazardous wastes or constituents, from any of solid waste management unit (SWMU) at its facility in Chicago, Illinois. This shall be accomplished by:

1. Conducting a RCRA Facility Investigation (RFI) to determine whether releases of hazardous wastes or constituents have occurred from any solid waste management unit (SWMU) at its Chicago facility, and if so, the nature and extent of the release(s).
2. Based upon the results of the RFI, developing and implementing a Corrective Action Plan which describes the necessary corrective actions which will be taken. The required corrective actions shall be those actions necessary to protect human health and the environment from all releases of hazardous wastes or constituents from any of the SWMUs determined to pose a potential threat to the environment as determined by the RFI required under the terms and conditions of this permit.

B. Conducting The RCRA Facility Investigation

The Permittee must conduct a RCRA Facility Investigation to determine the nature and extent of releases of hazardous wastes or constituents from SWMUs at the subject facility. This RFI shall be carried out in three phases. Each phase will provide for a more detailed evaluation of each Solid Waste Management Unit identified. The requirements for the RFI are provided in Attachment F to the permit.

1. Based upon the results of the RCRA Facility Assessment which was conducted by the Agency for this facility, the SWMUs identified in the table below must be evaluated in the RFI for potential releases to certain environmental media of concern also identified in the table. (Please note that this is not a complete listing of SWMUs at the subject facility.):

<u>Unit</u>	<u>Environmental Media of Concern</u>
Process Sewer System	soil

<u>Unit</u>	<u>Environmental Media of Concern</u>
Outside Drum Storage Area 1	soil
Outside Drum Storage Area 2	soil
Carbon Absorption System	soil
Inorganic Laboratory	soil
Oil/Water Separator	soil
Former 10,000 gallon sludge feed tank	soil
Auxiliary Basin #3	soil
Landfill	soil
Former Temporary Pickle Liquor Basins	soil
Former Pickle Liquor Disposal Sites	soil
Former Permanent Pickle Liquor Basins	soil
Former Oil Basin	soil
Former Lime Basin	soil
Chemical Reduction/Oxidation Pretreatment System	soil
Oil Contaminated Soil Storage Area	soil
13,000 Gallon Concrete Sludge Tank	soil
Tank 1	soil
Tank 2	soil
Tank 3	soil
Tank 4	soil
7,000 Gallon Concrete Receiving Tanks	soil
Truck Unloading Pad	soil



<u>Unit</u>	<u>Environmental Media of Concern</u>
Sludge Dewatering System	soil
Inside Drum Storage Area	soil

2. The Permittee shall submit to the Illinois Environmental Protection Agency's Division of Land Pollution Control (Agency's DLPC) Permit Section, within 120 days after the effective date of this permit, a written RCRA Facility Investigation (RFI) Phase I Workplan. In general, the Phase I RFI Workplan must contain the following:
  - a. General information regarding the Clean Harbors facility in Chicago, Illinois.
  - b. Information, as it is available, regarding each SWMU identified in Condition IV.B.1 above which (1) characterizes the unit, (2) describes its history of operations, and (3) documents the unit's integrity.
  - c. Proposed procedures, including field activities, to determine the absence or presence of releases of hazardous waste or hazardous constituents to the soil and/or air from each SWMU which is determined, based on the unit and waste characterization in IV.B.2.b, to have a potential to have released hazardous waste or hazardous constituents to an environmental media.

More specific requirements regarding what must be contained in the Phase I Workplan are contained in Attachment F to this permit.
3. The Agency will approve, approve with modifications, or disapprove the Phase I Workplan in writing and provide comments regarding the necessary corrections or modifications.
  - a. Within 60 days of receipt of such comments, the Permittee must modify the plan or submit a new plan for the Agency's DLPC approval.
  - b. Within 30 days of the Agency's DLPC approval of the RFI Phase I Workplan, the Permittee shall begin implementing the Workplan according to the terms and schedule in the Workplan.
  - c. Agency action on the Phase I Workplan will be subject to the appeal provisions of Section 39(a) and Section 40(a) of the Act.

4. The Permittee must submit a report documenting the efforts carried out as set forth in the approved RFI Phase I Work Plan in accordance with the schedule established in the approved Workplan. This report must be organized so as to present a comprehensive and coherent description of the sources, nature and extent of soil contamination discovered at each SWMU during the Phase I RFI. The report must also discuss and evaluate the results of the Phase I RFI associated with each SWMU and include conclusions related to the need for additional investigation at each SWMU as part of a Phase II RFI. This report must be prepared in accordance with (1) the Data Management Plan which is to be a part of the RFI Phase I Workplan (see Item III.F of Attachment F to this permit) and (2) any modifications to the Workplan imposed by the Agency as part of its approval of the workplan.
  - a. Since the report must include conclusions related to the need for a Phase II investigation, it must contain proposed concentrations which will be used to make this determination. Justification for these proposed values must also be included in the report.
5. Following the submittal of the RFI Phase I report, the Agency's DLPC will review the submitted data and notify the Permittee in writing of the results of the review. This notification will discuss the status of each of the SWMUs evaluated as part of Phase I of the RFI.
  - a. If the Agency determines, based upon the data provided within and obtained from the Phase I Workplan for each SWMU investigated, that (1) there is no potential for release from that SWMU to the environmental media of concern and (2) there has been no release of hazardous wastes or constituents to the environmental media of concern from that SWMU, then no further action will be required for that SWMU.
  - b. If the Agency determines, based on the data from the Phase I RFI for each SWMU investigated, that (1) there has been a release to any environmental media of concern, (2) there currently is a release to any environmental media of concern, or (3) the data associated with a given SWMU is inconclusive, then the Permittee shall be required to conduct additional investigation of the SWMU as part of Phase II and, if necessary, Phase III of the RFA.
  - c. The final letter sent to the facility conveying the results of the review will:
    1. Identify those SWMUs for which no further investigation is needed;

2. Identify which SWMUs which must be further investigated to determine the rate and extent of migration of hazardous waste or hazardous constituents and the concentrations of the hazardous waste or hazardous constituents in the environmental media potentially impacted by the SWMU;
  3. Identify, for each SWMU requiring further investigation, the associated environmental media which must be further investigated; and
  4. Indicate whether the facility must perform a Phase II and/or a Phase III RFI Investigation for those SWMUs requiring further investigation. Unless sufficient information is provided to the Agency as a result of additional investigation in the Phase II investigation, units which have the possibility of releasing hazardous waste or hazardous constituents to groundwater must be evaluated as part of Phase III of the RFA.
- d. Agency action on the final Phase I RFI report and proposed cleanup objectives will be subject to the appeal provisions of Sections 39(a) and Section 40(a) of the Act.
6. If the Permittee is notified in writing in accordance with Condition IV.B.5.c that any SWMUs identified in Condition IV.B.1 above must be included in Phase II of the RFI, then the Permittee must develop and submit a Phase II RFI Workplan. Phase II of the RFA shall focus on determining the rate and extent of migration of hazardous waste or constituents and the concentrations of the hazardous waste or constituents in the soil and/or air potentially impacted by the SWMU. Only the media potentially impacted by each SWMU as identified in the Agency notification set forth in Condition IV.B.5.c above must be investigated. Such a workplan must be submitted no more than 90 days after the facility is notified in writing in accordance with Condition IV.B.5.c above. The requirements for a Phase II of the RFI are contained in Attachment F to the permit.
  7. The Agency's DLPC will approve, modify and approve, or disapprove the Phase II workplan in writing and provide comments regarding the required corrections or modifications.
    - a. Within 60 days of the receipt of such comments, the Permittee must modify the plan or submit a new plan for the Agency's DLPC approval.

- b. Within 30 days of the Agency's DLPC approval of the RFI Phase II Workplan, the Permittee shall begin implementing the plan according to the terms and schedule established in the Phase II Workplan.
  - c. Agency action on the Phase II workplan will be subject to the appeal provisions of Section 39(a) and Section 40(a) of the Act.
8. The Permittee must submit a report documenting the efforts carried out in accordance with the approved RFI Phase II Workplan in accordance with the schedule established within the Phase II Workplan. This report must be prepared in a manner which is similar to that specified in Condition IV.B.4 above.
- a. Should the Permittee wish to propose target soil cleanup objectives for corrective measures, such a proposal must be submitted to the Agency upon submittal of the RFI Phase II report. Such a request must consider distance from the subject SWMU(s) to potential receptors, 35 Ill. Adm. Code 620 groundwater quality standards, and it must provide an assessment of potential threats to human health and the environment in proposing soil, surface water or groundwater target cleanup objectives (i.e., the proposal should include a site and contaminant specific risk assessment which ensures that alternative target cleanup objectives will not allow the groundwater quality standards to be exceeded, or pose a threat to human health and the environment). The Agency will establish cleanup objectives for corrective measures if no objectives are proposed by the Permittee.
9. Following submittal of the RFI Phase II report, the Agency's DLPC will review the data obtained from the RFI Phase II investigation and shall notify the Permittee in writing of the results.
- a. If the Agency determines that there is a potential that groundwater has been impacted by a release of hazardous wastes or hazardous constituents from any SWMU evaluated during the Phase II investigation, then the Permittee must conduct Phase III of the RFI for such SWMUs. The purpose of the Phase III investigation of the RFI will be to define the extent of releases, both on-site and off-site, to the groundwater from SWMUs for which the results of the Phase II investigation indicate a release to groundwater. The requirements associated with a Phase III Investigation are contained in Attachment D to this permit.

- b. If the Agency's DLPC determines that a RFI Phase III investigation is not required, based on data obtained from the RFI Phase II investigation, the Agency reserves the right to require that corrective measures be conducted for the SWMU(s) of concern to address releases identified through the Phase I and Phase II investigations.
  - c. The Agency's response to the Phase II report will:
    - i. Identify those SWMUs and associated environmental media for which Phase III of the RFI must be conducted; and
    - ii. Identify those SWMUs and associated environmental media for which corrective action is required, although no Phase III investigation is required.
  - d. Agency action on the final RFI Phase II report will be subject to the appeal provisions of Section 39(a) and Section 40(a) of the Act.
10. Within 90 days of notification of the need for a Phase III investigation, the Permittee shall submit a plan for conducting Phase III of the RFI. The Agency will approve, modify and approve, or disapprove and provide comments to the Permittee as to the corrections or modifications needed for the RFI Phase III Workplan.
- a. Within 60 days of receipt of such comments, the Permittee must modify the plan or submit a new plan for the Agency's DLPC approval.
  - b. Within 30 days of the Agency approval of the RFI Phase III Workplan, the Permittee shall begin implementing the plan according to the terms and schedule established within the Workplan.
  - c. Agency action on the Phase III workplan will be subject to the appeal provisions of Section 39(a) and Section 40(a) of the Act.
11. Within 120 days of receipt of the Agency's response identified in Condition IV.B.9.c, the Permittee shall submit to the Agency a Corrective Action Plan (CAP), in accordance with the requirements outlined in Condition IV.C. below for those SWMUs identified in the response as requiring corrective action that do not need to evaluate as part of the Phase III investigation.

12. The Permittee must submit a report documenting the efforts carried out in accordance with the approved RFA Phase III Workplan in accordance with the schedule set forth in that workplan. This report must be prepared in a manner which is similar to that specified in Condition IV.B.4 above.
13. Following submittal of the RFI Phase III report, the Agency's DLPC will review the data contained in the report and notify the Permittee in writing of the results.
  - a. If the Agency determines that there has been a release of hazardous waste or hazardous constituents from a SWMU to the groundwater, then the Permittee must perform corrective action, as necessary, to protect human health and the environment.
  - b. If the Agency determines that there (1) has not been a release of hazardous waste or constituents from a SWMU to the groundwater and (2) is no potential for releases of hazardous waste or hazardous constituents from a SWMU to the groundwater, then no corrective action will be required at that SWMU relating to groundwater.
  - c. If the Agency determines (1) that there has not been a release of hazardous waste or hazardous constituents from a SWMU to the groundwater and (2) that there is a potential for future releases of hazardous waste or hazardous constituents from a SWMU to the groundwater, then the Agency may require a longer term groundwater monitoring program at any SWMU where substantial soil contamination exists (as determined by the Agency), or at any SWMU which would meet the definition of a land disposal unit.
  - d. The Agency's response to the Phase III report will:
    - i. Identify those SWMUs investigated as part of Phase III of the RFI from which there has been a release of hazardous waste or hazardous constituents to groundwater that requires corrective action;
    - ii. Identify those SWMUs investigated as part of Phase III of the RFI for which no corrective action is required for groundwater at this time; and
    - iii. Identify those land-based SWMUs investigated as part of the Phase III RFI for which a longer term groundwater

monitoring program must be established. "Land-based SWMUs" are SWMUs where waste, contaminated soil and/or contaminated groundwater are allowed to remain in-place.

- e. Agency action on the Phase III Workplan will be subject to the appeal provisions of Section 39(a) of the Act.
- 14. If the Agency's notification identified in Condition IV.B.13.d above requires that corrective action be performed for releases of hazardous waste or hazardous constituents to the groundwater from certain SWMUs, then the Permittee must submit a Corrective Action Plan for this release from the SWMU(s) of concern which meets the requirements of Condition IV.C below for review and approval. This plan must be submitted within 120 days of the date that the notification identified in Condition IV.B.13.d is received by the Permittee.
- 15. If the Agency's notification identified in Condition IV.B.13.d above requires that a longer term groundwater monitoring program be established for certain SWMUs, then the Permittee must submit such a plan within 120 days after receiving this notification. This plan must be developed in accordance with the general procedures set forth in Section III.D.4 of Attachment F. The Agency will approve, modify and approve or disapprove and provide comments to the Permittee as to corrections or modifications needed for the program.
  - a. Within sixty (60) days of receipt of such comments, the Permittee must modify the plan or submit a new plan for the Agency's approval.
  - b. Within thirty (30) days of the approval of the plan, the Permittee shall begin implementing the plan in accordance with the terms and schedule established in the plan.
  - c. Agency action on the groundwater monitoring plan will be subject to the appeal provisions of Section 39(a) and Section 40(a) of the Act.

C. Corrective Action Requirements

If, in accordance with Conditions IV.B.9 and/or IV.B.13, the Agency determines that corrective actions must be taken in response to releases, then the Permittee shall develop a Corrective Action Plan (CAP). This plan must be submitted within 120 days after receipt of the notification from the Agency that corrective actions are necessary to protect human health and the environment from observed releases from releases of solid

waste to the environment. The purpose of the CAP is to develop and evaluate corrective action alternative(s) and evaluate corrective action measure(s) which will satisfy the target cleanup objectives specified by the Agency's DLPC. The proposed corrective actions must be sufficient to protect human health and the environment from the observed release.

The Agency may approve, modify and approve, or disapprove and provide comments to the Permittee as to the corrections or modifications needed for the CAP. Within 60 days of receipt of such comments, the Permittee must modify the CAP or submit a new CAP to the Agency's DLPC staff for Agency approval. The Agency's ~~DLPC~~ approval of one or more of the corrective measure(s) may consider, at a minimum, performance, reliability, implementability, safety, human health and the environmental impact of the measure(s). The formal approval and incorporation of the selected corrective measure(s) into the Part B permit will be through the Class 2 Permit Modification procedures identified in 35 Ill. Adm. Code 703.282. The Permittee shall begin implementing the selected corrective measure(s) according to the terms and schedule identified in the modified permit.

**D. Financial Assurance for Corrective Action**

1. The Permittee shall prepare a cost estimate for the completion of any corrective measure(s) required under this permit, in order to provide financial assurance for completion of corrective action, as required under 35 Ill. Adm. Code 724.201(b). Such a cost estimate will be based upon the cost of contamination investigations and assessments for the SWMU(s), and design, construction, operation, inspection, monitoring, and maintenance of the corrective measure(s) to meet the requirements of 35 Ill. Adm. Code 724.201, Attachment F and this permit. This cost estimate must be submitted to the Agency's DLPC and revised according to the following schedule:

<u>Facility Submission</u>	<u>Due Date</u>
Initial Cost Estimate (with Workplan)	120 days after the RFI Phase I effective date of this permit
Revised Cost Estimate (with the initial submittal of each RFI Report)	Upon written Agency request

2. The Permittee shall demonstrate continuous compliance with 35 Ill. Adm. Code 724.201 by providing documentation of financial assurance using a mechanism specified in 35 Ill. Adm. Code 724.243, in at least the amount of the cost estimate required under Condition IV.D.1 the words "completion of corrective action" shall be substituted for



"closure and/or post-closure", as appropriate in the financial instrument specified in 35 Ill. Adm. Code 724.251. The documentation shall be submitted to the Agency's DLPC within 60 days after the submittal of the initial or revised cost estimates required under Condition IV.D.1. The Agency's DLPC may accept financial assurance for completion of corrective action in combination with another financial mechanism that is acceptable under 35 Ill. Adm. Code 724.246 at its discretion.

**E. Future Releases From SWMUs**

Whenever the Permittee becomes aware that any SWMU, that was not found to be releasing hazardous waste or constituents during the RFI, or was not addressed under the corrective action requirements of this permit, may have started to release hazardous waste or constituents, the Permittee shall report this information to the Agency's DLPC in writing within thirty (30) days of discovery. Upon the Agency's written request, the Permittee shall determine the nature and extent of the contamination by following the procedures set forth in Conditions IV.B through IV.D, beginning on the date of notification, rather than on the effective date of the permit.

**F. Notification Requirements for an Assessment of Newly-Identified Solid Waste Management Unit(s)**

1. The Permittee shall notify the Agency's DLPC in writing of any newly-identified SWMU(s) discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means, no later than sixty (60) calendar days after discovery. The notification shall provide the following information, if available:
  - a. The location of the newly-identified SWMU in relation to other SWMUs on a scaled map or drawing;
  - b. The type and past and present function of the SWMU;
  - c. The general dimensions, capacities, and structural description of the unit (available drawings and specifications provided);
  - d. The period during which the unit was operated;
  - e. The specifics on all materials, including but not limited to, wastes and hazardous constituents, that have been or are being managed at the SWMU, to the extent available; and

- f. The results of any relevant available sampling and analysis which may aid in determining whether releases of hazardous wastes or hazardous constituents have occurred or are occurring from the unit.
2. If the submitted information demonstrates a potential for a release of hazardous waste or constituents from the newly identified SWMU, the Agency may request in writing, that the Permittee prepare a Solid Waste Management Unit (SWMU) Assessment Plan and a proposed schedule of implementation and completion of the Plan for any additional SWMU(s) discovered subsequent to the issuance of this Permit.
3. Within 120 calendar days after receipt of an Agency request for a SWMU Assessment Plan, the Permittee shall prepare a SWMU Assessment Plan consistent with the requirements of IV.B through IV.D above. This SWMU Assessment plan must also propose investigations, including field investigations if necessary, to determine the release potential to specific environmental media for the newly-identified SWMU. The SWMU Assessment Plan must demonstrate that the sampling and analysis program, if applicable, is capable of yielding representative samples and must include parameters sufficient to identify migration of hazardous waste and hazardous constituents from the newly-discovered SWMU(s) to the environment.
4. After the Permittee submits the SWMU Assessment Plan, the Agency shall either approve, approve with conditions or disapprove the Plan in writing. If the plan is approved, the Permittee shall begin to implement the Plan within forty-five (45) calendar days of receiving such written notification. If the Plan is disapproved, the Agency shall notify the Permittee in writing of the Plan's deficiencies specify a due date for submittal of a revised plan.
5. The Permittee shall submit a report documenting the results of the approved SWMU Assessment Plan to the Agency in accordance with the schedule in the approved SWMU Assessment Plan. The SWMU Assessment Report shall describe all results obtained from the implementation of the approved SWMU Assessment Plan.

**G. Completion of Corrective Action**

1. The Permittee shall complete those corrective actions contained in the Corrective Action Plan approved in accordance with Condition IV.C above. The Permittee may request the Agency to consider corrective action complete at any point during compliance

with this permit. The petition should include a demonstration of the following:

- a. The Permittee shall demonstrate that there have been no releases of hazardous waste or hazardous constituents to any media from the SWMUs; or
- b. The Permittee shall demonstrate that all releases of hazardous waste or hazardous constituents to all media targeted within the RFI for investigation have been remediated to the target cleanup objectives specified within the approved Corrective Measures Plan, and shall also describe how releases will be prevented in the future; or
- c. Some combination of the above demonstrations.

Appropriate documentation and certification must accompany such a demonstration.

The Permittee shall be notified in writing if the Agency approves the request that the corrective actions can be considered complete. The notification from the Agency's DLPC to the Permittee may include a release from the financial requirements of Condition F above.

2. A determination of no further action shall not preclude the Agency's DLPC from requiring continued or periodic inspections of the SWMU(s) or continued or periodic monitoring of the specified environmental media when site-specific circumstances indicate that releases of hazardous wastes including constituents are likely to occur, if necessary to protect human health and the environment. Any requirement for long-term groundwater monitoring may only be required at SWMU where substantial soil contamination exists (as determined by the Agency) or at any SWMU which would meet the definition of a land disposal unit.
3. A determination of no further action shall not preclude the Agency from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release at the facility that is likely to pose a threat to human health of the environment. In such a case, the Agency's DLPC shall initiate a permit modification to rescind the determination no further action.

#### H. Reports and Signatories to Reports

All reports shall be certified in accordance with 35 Ill. Adm. Code 702.126(d) and signed by a person as identified in 35 Ill. Adm. Code 702.126(b).

## SECTION V: STANDARD CONDITIONS

### GENERAL REQUIREMENTS

1. **EFFECT OF PERMIT.** The existence of a RCRA permit shall not constitute a defense to a violation of the Act or 35 Ill. Adm. Code Subtitle G, except for development, modification or operation without a permit. Issuance of this permit does not convey property rights or any exclusive privilege. Issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or infringement of state or local law or regulations. (35 Ill. Adm. Code 702.181)
2. **PERMIT ACTIONS.** This permit may be modified, reissued or revoked for cause as specified in 35 Ill. Adm. Codes 703.270 through 703.273 and Section 702.186. The filing of a request by the Permittee for a permit modification or revocation, or a notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any permit condition. (35 Ill. Adm. 702.146)
3. **SEVERABILITY.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby. (35 Ill. Adm. Code 700.107)
4. **PERMIT CONDITION CONFLICT.** In case of conflict between a special permit condition and a standard condition, the special condition will prevail. (35 Ill. Adm. 702.160)
5. **DUTY TO COMPLY.** The Permittee shall comply with all conditions of this permit except the extent and duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the Act and is grounds for an enforcement action; permit revocation or modification; or for denial of a permit renewal application. (35 Ill. Adm. Code 702.141 and 703.242)
6. **DUTY TO REAPPLY.** If the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee must apply for a new permit at least 180 days before this permit expires, unless written permission for a later date has been granted by the Agency. (35 Ill. Adm. Codes 702.142 and 703.125)
7. **PERMIT EXPIRATION.** This permit and all conditions herein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely and complete application (see 35 Ill. Adm. Code 703.181-703.209) and through no fault of the Permittee the Agency has not issued a new permit as set forth in 35 Ill. Adm. Code 702.125.

8. **NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE.** It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (35 Ill. Adm. Code 702.143)
9. **DUTY TO MITIGATE.** In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases of hazardous substances to the environment. The Permittee shall carry out such measures as may be necessary to prevent significant adverse impacts on human health or the environment. (35 Ill. Adm. Code 702.144)
10. **PROPER OPERATION AND MAINTENANCE.** The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory, and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit. (35 Ill. Adm. Code 702.145)
11. **DUTY TO PROVIDE INFORMATION.** The Permittee shall furnish to the Agency, within a reasonable time, but no later than thirty days, any relevant information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Agency, upon request, copies of records required to be kept by this permit. (35 Ill. Adm. Code 702.148)

Furthermore, the Permittee shall provide to the Agency any documentation that is required by the Act or regulations.

12. **INSPECTION AND ENTRY.** The Permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:
  - a. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

- d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate statute, any substances or parameters at any location. (35 Ill. Adm. Code 702.149)

13. MONITORING AND RECORDS. (35 Ill. Adm. Code 702.150)

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste must be the appropriate method from Appendix A of 35 Ill. Adm. Code 721. Laboratory methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846, latest versions; Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, latest versions; or an equivalent method as specified in the approved Waste Analysis Plan.
  - b. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report or application. These periods may be extended by request of the Agency at any time. The permittee shall maintain records from all groundwater monitoring wells and associated groundwater surface elevations, for the active life of the facility, and for disposal facilities for the post-closure care period as well.
  - c. Records of monitoring information shall include:
    - i. The date(s), exact place, and time of sampling or measurements;
    - ii. The individual(s) who performed the sampling or measurements;
    - iii. The date(s) analyses were performed;
    - iv. The individual(s) who performed the analyses;
    - v. The analytical technique(s) or method(s) used; and
    - vi. The result(s) of such analyses. (35 Ill. Adm. Code 702.150)
14. REPORTING PLANNED CHANGES. The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. For a new hazardous waste management facility, the permittee shall not commence treatment, storage or disposal of

hazardous waste; and for a facility being modified the permittee shall not treat, store or dispose of hazardous waste in the modified portion of the facility, until:

- a. The permittee has submitted to the Agency by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and
- b.
  1. The Agency has inspected the modified or newly constructed facility and finds it is in compliance with the condition of the permit; or
  2. If, within 15 days of the date of submission of the letter in paragraph (a), the permittee has not received notice from the Agency of its intent to inspect, prior inspection is waived and the permittee may commence treatment, storage or disposal of hazardous waste. (35 Ill. Adm. Codes 703.244 and 702.152(a))

15. **ANTICIPATED NONCOMPLIANCE.** The Permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements, regulations, or the Act. For a new facility, the permittee shall not treat, store or dispose of hazardous waste; and for a facility being modified, the permittee shall not treat, store or dispose of hazardous waste in the modified portion of the facility, except as provided in Section 703.280, until:

- i. The permittee has submitted to the Agency by certified mail or hand delivery a letter signed by the permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and
- ii. Either:
  - a. The Agency has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or
  - b. Within 15 days after the date submission of the letter in section i above, the permittee has not received notice from the Agency of its intent to inspect, the permittee may commence treatment, storage or disposal of hazardous waste.

(35 Ill. Adm. Codes 702.152(b) and 703.247)

16. **TRANSFER OF PERMITS.** This permit is not transferable to any person except after notice to the Agency. The Agency may require modification of the

permit to change the name of the permittee and incorporate such other requirements as may be necessary under the appropriate Act. (See 35 Ill. Adm. Codes 703.260 and 703.270, in some cases modification is mandatory.) (35 Ill. Adm. Code 702.152(c)) The transferree shall submit any information the Agency shall request. The Agency determines whether the transferree is of sufficient good character.

17. **MONITORING REPORTS.** Monitoring results shall be reported at the intervals specified in the permit. (35 Ill. Adm. Code 702.152(d))
18. **COMPLIANCE SCHEDULES.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than specified in 35 Ill. Adm. Codes 702.162 and 702.152(e).
19. **TWENTY-FOUR HOUR REPORTING.**
  - a. The Permittee shall report to the Agency any noncompliance with the permit, regulations, the Act or any other matter which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittee becomes aware of the following circumstances. This report shall include the following:
    - i. Information concerning the release of any hazardous substance, agrichemical or pesticide that may cause harm to public drinking water supplies.
    - ii. Information concerning the release or discharge of any hazardous waste or of a fire or explosion at the HWM facility, which could threaten the environment or human health outside the facility.
  - b. The description of the occurrence and its cause shall include:
    - i. Name, address, and telephone number of the owner or operator;
    - ii. Name, address, and telephone number of the facility;
    - iii. Date, time, and type of incident;
    - iv. Name and quantity of material(s) involved;
    - v. The extent of injuries, if any;
    - vi. An assessment of actual or potential hazards to the environment and human health outside the facility, where applicable; and
    - vii. Estimated quantity and disposition of recovered material that resulted from the incident.



- c. A written submission shall also be provided within 5 days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Agency may waive the five day written notice requirement in favor of a written report within fifteen days. (35 Ill. Adm. Codes 702.152(f) and 703.245(b))
20. **OTHER NONCOMPLIANCE.** The Permittee shall report all instances of noncompliance not otherwise required to be reported under Standard Conditions 17, 18, and 19, at the time monitoring reports, as required by this permit, are submitted. The reports shall contain the information listed in Standard Condition 19. (35 Ill. Adm. Code 702.152(g))
21. **OTHER INFORMATION.** Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Agency, the Permittee shall promptly submit such facts or information. (35 Ill. Adm. Code 702.152(h))
22. **REPORTING REQUIREMENTS.** The following reports required by 35 Ill. Adm. Code 724 shall be submitted in addition to those required by 35 Ill. Adm. Code 702.152 (reporting requirements):
- a. **Manifest discrepancy report:** if a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy with the waste generator or transporter. If the discrepancy is not resolved within 15 days after receiving the waste, the permittee must immediately submit to the Agency a letter describing the discrepancy and attempts to reconcile it and a copy of the manifest or shipping paper at issue. (35 Ill. Adm. Code 724.172(b))
  - b. **Unmanifested waste report:** The permittee must submit to the Agency within 15 days of receipt of unmanifested waste an unmanifested waste report on EPA form 8700-13B. (35 Ill. Adm. Code 724.176)
  - c. **Annual report:** an annual report must be submitted covering facility activities during the previous calendar year. (35 Ill. Adm. Code 724.175)
23. **SUBMITTAL OF REPORTS OR OTHER INFORMATION.** All written reports or other written information required to be submitted by the terms of this permit shall be sent to:

Illinois Environmental Protection Agency  
Division of Land Pollution Control #24  
Planning and Reporting Section  
2200 Churchill Road  
Post Office Box 19276  
Springfield, Illinois 62794-9276

24. **SIGNATORY REQUIREMENT.** All permit applications, reports or information submitted to the Agency shall be signed and certified as required by 35 Ill. Adm. Code 702.126 and 702.151.
25. **CONFIDENTIAL INFORMATION.** Any claim of confidentiality must be asserted in accordance with 35 Ill. Adm. Code 702.103 and 161.
26. **DOCUMENTS TO BE MAINTAINED AT FACILITY SITE.** The Permittee shall maintain at the facility, until closure is complete, the following documents and amendments, revisions and modifications to these documents:
  - a. Waste analysis plan as required by 35 Ill. Adm. Code 724.113(b) and this permit.
  - b. Personnel training documents and records as required by 35 Ill. Adm. Code 724.116(d) and this permit.
  - c. Contingency plan as required by 35 Ill. Adm. Code 724.153(a) and this permit.
  - d. Closure plan as required by 35 Ill. Adm. Code 724.212(a) and this permit.
  - e. Cost estimate for facility closure as required by 35 Ill. Adm. Code 724.242(d) and this permit.
  - f. Operating record as required by 35 Ill. Adm. Code 724.173 and this permit.
  - g. Inspection schedules as required by 35 Ill. Adm. Code 724.115(b) and this permit.
27. **WASTE MINIMIZATION.** The Permittee shall certify at least annually that the Permittee has a program in place to reduce the volume and toxicity of hazardous waste that he generates to the degree determined by the Permittee to be economically practicable, and the proposed method of treatment, storage, or disposal is that practicable method currently available to the Permittee which minimizes the present and future threat to human health and the environment, in accordance with 35 Ill. Adm. Code 724.173(b)(9).

#### GENERAL FACILITY STANDARDS

28. **NOTICE OF WASTE FROM A FOREIGN SOURCE.** The permittee who has arranged to receive hazardous waste from a foreign source must notify the Agency in writing at least four weeks in advance of the date the waste is expected at the facility. (35 Ill. Adm. Code 724.112(a))
29. **NOTICE OF WASTE FROM OFF-SITE.** The Permittee who receives hazardous waste from an off-site source (except where the Permittee is also the generator), must inform the generator in writing that the permittee has the appropriate permits for, and will accept, the waste the generator is shipping. The Permittee must keep a copy of this written notice as part of the facility operating record. (35 Ill. Adm. Code 724.112(b))
30. **GENERAL WASTE ANALYSIS.** The Permittee shall comply with the procedures described in the approved waste analysis plan. (35 Ill. Adm. Code 724.113)
31. **SECURITY.** The Permittee shall comply with the security provisions of 35 Ill. Adm. Code 724.114(b) and (c).
32. **GENERAL INSPECTION REQUIREMENTS.** The Permittee shall follow the approved inspection schedule. The Permittee shall remedy any deterioration or malfunction discovered by an inspection as required by 35 Ill. Adm. Code 724.115(c). Records of inspections shall be kept at the facility as required by 35 Ill. Adm. Code 724.115(d).
33. **PERSONNEL TRAINING.** The Permittee shall conduct personnel training as required by 35 Ill. Adm. Code 724.116 and shall maintain training documents and records as required by 35 Ill. Adm. Code 724.116(d) and (e).
34. **GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE.** The Permittee shall comply with the requirements of 35 Ill. Adm. Code 724.117.

#### PREPAREDNESS AND PREVENTION

35. **DESIGN AND OPERATION OF FACILITY.** The Permittee shall maintain and operate the facility to minimize the possibility of fire, explosion, or any unplanned sudden or non-sudden release of hazardous substance, agrichemical, or pesticide to air, soil, or surface water which could threaten human health or the environment. (35 Ill. Adm. Code 724.131) Additionally, the Permittee shall remediate any release of a hazardous substance, agrichemical or pesticide.
36. **REQUIRED EQUIPMENT.** The Permittee shall equip the facility with the equipment set forth in the approved contingency plan, as required by 35 Ill. Adm. Code 724.132.

37. TESTING AND MAINTENANCE OF EQUIPMENT. The Permittee shall test and maintain the equipment specified in condition 36 as necessary to assure its proper operation in time of emergency. Such testing and maintenance activities are set forth in the approved inspection schedule. (35 I11. Adm. Code 724.133)
38. ACCESS TO COMMUNICATIONS OR ALARM SYSTEM. The Permittee shall maintain access to the communications or alarm system as required by 35 I11. Adm. Code 724.134.
39. REQUIRED AISLE SPACE. The Permittee shall maintain aisle space as required by 35 I11. Adm. Code 724.135 and National Fire Protection Association (NFPA) requirements.
40. ARRANGEMENTS WITH STATE AND LOCAL AUTHORITIES AND EMERGENCY RESPONSE CONTRACTORS. The Permittee shall attempt to make emergency response arrangements with State and local authorities and agreements with State emergency response teams and emergency response contractors and equipment suppliers as required by 35 I11. Adm. Code 724.137. If State or local officials refuse to enter in preparedness and prevention arrangements with the Permittee, the Permittee must document this refusal in the operating record.

#### CONTINGENCY PLAN

41. IMPLEMENTATION OF PLAN. The provisions of the contingency plan must be carried out by the Permittee immediately whenever there is a fire, explosion or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment (35 I11. Adm. Code 724.151(b)). At a minimum, this includes any fire or explosion which occurs in an area where hazardous waste is being managed (treated, stored or disposed) (35 IAC 703.241). Within 15 days of any incident that requires implementation of the contingency plan, the owner or operator must submit a written report to the Agency as required by 35 I11. Adm. Code 724.156(j).
42. COPIES OF PLAN. A copy of the contingency plan, including any revisions, must be maintained at the facility and submitted to all local police and fire departments, hospitals and state and local emergency response teams as required by 35 I11. Adm. Code 724.153.
43. AMENDMENTS TO PLAN. The Permittee shall review and immediately amend, if necessary, the contingency plan, as required by 35 I11. Adm. Code 724.154.
44. EMERGENCY COORDINATOR. A trained emergency coordinator shall be available at all times in case of an emergency as required by 35 I11. Adm. Code 724.155 and 724.156.

#### MANIFEST SYSTEM RECORD KEEPING AND REPORTING

45. **MANIFEST SYSTEM.** The Permittee shall comply with the manifest requirements of 35 Ill. Adm. Code 724.171, 724.172 and 724.176.
46. **OPERATING RECORD.** The Permittee shall maintain a written operating record at the facility in accordance with 35 Ill. Adm. Code 724.173.
47. **ANNUAL REPORT.** The Permittee shall prepare and submit an annual report to the Agency prior to March 1st of each year in accordance with the requirements of 35 Ill. Adm. Code 724.175.

#### CLOSURE

48. **PERFORMANCE STANDARD.** The Permittee shall close the facility as required by 35 Ill. Adm. Code 724.211 and in accordance with the approved closure plan.
49. **AMENDMENT TO CLOSURE PLAN.** The Permittee must amend the closure plan whenever there is a change in the expected year of closure or whenever a change in the facility operation plans or facility design affects the closure plan pursuant to 35 Ill. Adm. Code 724.212(c).
50. **NOTIFICATION OF CLOSURE.** The Permittee shall notify the Agency at least 60 days prior to the date it expects to begin closure. (35 Ill. Adm. Code 724.212(d))
51. **TIME ALLOWED FOR CLOSURE.** After receiving the final volume of hazardous waste, the Permittee shall treat or remove from the site all hazardous waste and complete closure activities in accordance with the schedule(s) specified in the closure plan. (35 Ill. Adm. Code 724.213)
52. **DISPOSAL AND/OR DECONTAMINATION OF EQUIPMENT.** When closure is completed, the Permittee shall decontaminate and/or dispose of all facility equipment and structures as required by the approved closure (35 Ill. Adm. Code 724.214) plan.
53. **CERTIFICATION OF CLOSURE.** When closure is completed, the Permittee shall submit certification to the Agency in accordance with 35 Ill. Adm. Code 724.215 that the facility has been closed as specified by the approved closure plans.
54. **COST ESTIMATE FOR FACILITY CLOSURE.** The Permittee's original closure cost estimate, prepared in accordance with 35 Ill. Adm. Code 724.242, must be:

- a. Adjusted for inflation either 60 days prior to each anniversary of the date on which the first closure cost estimate was prepared or if using the financial test or corporate guarantee, within 30 days after close of the firm's fiscal year.
  - b. Revised whenever there is a change in the facility's closure plan increasing the cost of closure.
  - c. Kept on record at the facility and updated. (35 Ill. Adm. Code 724.242)
  - d. Made immediately available to Agency personnel upon Agency request.
55. **FINANCIAL ASSURANCE FOR FACILITY CLOSURE.** The Permittee shall demonstrate compliance with 35 Ill. Adm. Code 724.243 by providing documentation of financial assurance, as required by 35 Ill. Adm. Code 724.251, in at least the amount of the cost estimates required by the previous Permit Condition. Changes in financial assurance mechanisms must be approved by the Agency pursuant to 35 Ill. Adm. Code 724.243.
56. **LIABILITY REQUIREMENTS.** The Permittee shall demonstrate continuous compliance with the requirements of 35 Ill. Adm. Code 724.247 and the documentation requirements of 35 Ill. Adm. Code 724.251.
57. **INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS.** The Permittee shall comply with 35 Ill. Adm. Code 724.248 whenever necessary.

#### LAND DISPOSAL RESTRICTIONS

58. **DISPOSAL PROHIBITION.** Any waste identified in 35 Ill. Adm. Code Part 728, Subpart C, or any mixture of such a waste with non-restricted wastes, is prohibited from land disposal unless it meets the standards of 35 Ill. Adm. Code Part 728, Subpart D, or unless it meets the requirements for exemptions under Subpart C. "Land disposal" means placement in or on the land and includes, but is not limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, or vault intended for disposal.
59. **DILUTION PROHIBITION.** The Permittee shall not in any way dilute a restricted waste or residual from treatment of a restricted waste as a substitute for adequate treatment in order to achieve compliance with 35 Ill. Adm. Code 728, Subpart D (35 Ill. Adm. Code 728.103).

#### 60. WASTE ANALYSIS.

1. The Permittee must test his waste or extract developed, using the test method identified in Appendix I of 40 CFR Part 268, or use knowledge of the waste, to determine if the waste is restricted from land disposal.
2. For any waste with treatment standards expressed as concentrations in the waste extract, the Permittee must test the treatment residues or an extract of such residues developed using the test method described in Appendix I of 40 CFR Part 268, to assure that the treatment residues or extract meet the applicable treatment standard.
3. If the treatment residues do not meet the treatment standards, or if the Permittee ships any restricted wastes to a different facility, the Permittee shall comply with the requirements applicable to generators in 35 Ill. Adm. Code 728.107 and 728.150(a)(1).

#### 61. STORAGE RESTRICTIONS

1. The Permittee shall not store hazardous wastes restricted from land disposal under 35 Ill. Adm. Code Part 728, Subpart C unless such wastes are stored only in containers or tanks, and are stored solely for the purpose of the accumulation of such quantities as is necessary to facilitate proper recovery, treatment, or disposal, and: (1) each container is clearly marked to identify its contents and the date each period of accumulation begins; (2) each tank is clearly marked to identify its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, as required by 35 Ill. Adm. Code 728.150.
2. The Permittee must comply with the operating record requirements of 35 Ill. Adm. Code 724.173.

#### 62. NEW DETERMINATIONS OF PROHIBITED WASTES

Wastes which are prohibited from land disposal under 35 Ill. Adm. Code Part 728, Subpart C, or for which treatment standards have been established under 35 Ill. Adm. Code 728, Subpart D, subsequent to the date of issuance of this permit, shall be subject to the conditions number 58 through 61 above.

#### 63. DEFINITIONS

Within the scope of this permit "days" refers to calendar days unless otherwise specified.

0316000051  
RCRA Log No. 16  
Page A-1 of 40

**ATTACHMENT A**

**Wastes Which Can Be Accepted and  
Hazardous Waste Identification Numbers**

**0316000051**



**Hazardous Waste Codes Acceptable for the RCRA Exempt Wastewater Treatment Units**

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

**A. Characteristically Hazardous Waste**

- |      |   |
|------|---|
| D001 | Solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste (HN03 (>40%)). |
| D002 | Solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste.                |
| D003 | Solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste.                 |
| D004 | Solid waste exhibiting the characteristic of TCLP toxicity for arsenic at 5.0 mg/l or more.                         |
| D005 | Solid waste exhibiting the characteristic of TCLP toxicity for barium at 100 mg/l or more.                          |
| D006 | Solid waste exhibiting the characteristic of TCLP toxicity for cadmium at 1.0 mg/l or more.                         |
| D007 | Solid waste exhibiting the characteristic of TCLP toxicity for chromium at 5.0 mg/l or more.                        |
| D008 | Solid waste exhibiting the characteristic of TCLP toxicity for lead at 5.0 mg/l or more.                            |
| D009 | Solid waste exhibiting the characteristic of TCLP toxicity for mercury at 0.2 mg/l or more.                         |
| D010 | Solid waste exhibiting the characteristic of TCLP toxicity for selenium at 1.0 mg/l or more.                        |
| D011 | Solid waste exhibiting the characteristic of TCLP toxicity for silver at 5.0 mg/l or more.                          |
| D018 | Solid waste exhibiting the characteristic of TCLP toxicity for benzene at 0.5 mg/l or more.                         |
| D019 | Solid waste exhibiting the characteristic of TCLP toxicity for carbon tetrachloride at 0.5 mg/l or more.            |

Hazardous  
Waste No.

Description of Hazardous Waste

- |      |   |
|------|---|
| D021 | Solid waste exhibiting the characteristic of TCLP toxicity for chlorobenzene at 100.0 mg/l or more.       |
| D022 | Solid waste exhibiting the characteristic of TCLP toxicity for chloroform at 6.0 mg/l or more.            |
| D023 | Solid waste exhibiting the characteristic of TCLP toxicity for o-cresol at 200.0 mg/l or more.            |
| D024 | Solid waste exhibiting the characteristic of TCLP toxicity for m-cresol at 200.0 mg/l or more.            |
| D025 | Solid waste exhibiting the characteristic of TCLP toxicity for p-cresol at 200.0 mg/l or more.            |
| D026 | Solid waste exhibiting the characteristic of TCLP toxicity for cresol at 200.0 mg/l or more.              |
| D027 | Solid waste exhibiting the characteristic of TCLP toxicity for 1,4 dichlorobenzene at 7.5 mg/l or more.   |
| D028 | Solid waste exhibiting the characteristic of TCLP toxicity for 1,2 dichloroethane at 0.5 mg/l or more.    |
| D029 | Solid waste exhibiting the characteristic of TCLP toxicity for 1,1 dichloroethylene at 0.7 mg/l or more.  |
| D030 | Solid waste exhibiting the characteristic of TCLP toxicity for 2,4 dinitrotoluene at 0.13 mg/l or more.   |
| D032 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobenzene at 0.13 mg/l or more.    |
| D033 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobutadiene at 0.5 mg/l or more.   |
| D034 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachloroethane at 3.0 mg/l or more.      |
| D035 | Solid waste exhibiting the characteristic of TCLP toxicity for methyl ethyl ketone at 200.0 mg/l or more. |

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D036	Solid waste exhibiting the characteristic of TCLP toxicity for nitrobenzene at 2.0 mg/l or more.
D039	Solid waste exhibiting the characteristic of TCLP toxicity for tetrachloroethylene at 0.7 mg/l or more.
D040	Solid waste exhibiting the characteristic of TCLP toxicity for trichloroethylene at 0.5 mg/l or more.
D041	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,5 trichlorophenol at 400.0 mg/l or more.
D042	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,6 trichlorophenol at 2.0 mg/l or more.
D043	Solid waste exhibiting the characteristic of TCLP toxicity for vinyl chloride at 0.2 mg/l or more.

**B. Hazardous Wastes from Non-Specific Sources**

K062	Spent pickle liquor generated by steel finishing operations of facility within the iron and steel industry (SIC Code 331 and 332, as defined in 35 Ill. Adm. Code 720.110).
------	---

Hazardous Waste Codes Acceptable for the Listed  
Waste Treatment Process  
(Neutralization, Precipitation, Coagulation,  
Oxidation, Stripping or Carbon Adsorption)

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

**A. Characteristically Hazardous Waste**

D001	Solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste.
D002	Solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D003	Solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste.
D004	Solid waste exhibiting the characteristic of TCLP toxicity for arsenic at 5.0 mg/l or more.
D005	Solid waste exhibiting the characteristic of TCLP toxicity for barium at 100 mg/l or more.
D006	Solid waste exhibiting the characteristic of TCLP toxicity for cadmium at 1.0 mg/l or more.
D007	Solid waste exhibiting the characteristic of TCLP toxicity for chromium at 5.0 mg/l or more.
D008	Solid waste exhibiting the characteristic of TCLP toxicity for lead at 5.0 mg/l or more.
D009	Solid waste exhibiting the characteristic of TCLP toxicity for mercury at 0.2 mg/l or more.
D010	Solid waste exhibiting the characteristic of TCLP toxicity for selenium at 1.0 mg/l or more.
D011	Solid waste exhibiting the characteristic of TCLP toxicity for silver at 5.0 mg/l or more.
D018	Solid waste exhibiting the characteristic of TCLP toxicity for benzene at 0.5 mg/l or more.
D019	Solid waste exhibiting the characteristic of TCLP toxicity for carbon tetrachloride at 0.5 mg/l or more.
D021	Solid waste exhibiting the characteristic of TCLP toxicity for chlorobenzene at 100.0 mg/l or more.
D022	Solid waste exhibiting the characteristic of TCLP toxicity for chloroform at 6.0 mg/l or more.
D023	Solid waste exhibiting the characteristic of TCLP toxicity for o-cresol at 200.0 mg/l or more.
D024	Solid waste exhibiting the characteristic of TCLP toxicity for m-cresol at 200.0 mg/l or more.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D025	Solid waste exhibiting the characteristic of TCLP toxicity for p-cresol at 200.0 mg/l or more.
D026	Solid waste exhibiting the characteristic of TCLP toxicity for cresol at 200.0 mg/l or more.
D027	Solid waste exhibiting the characteristic of TCLP toxicity for 1,4 dichlorobenzene at 7.5 mg/l or more.
D028	Solid waste exhibiting the characteristic of TCLP toxicity for 1,2 dichloroethane at 0.5 mg/l or more.
D029	Solid waste exhibiting the characteristic of TCLP toxicity for 1,1 dichloroethylene at 0.7 mg/l or more.
D030	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4 dinitrotoluene at 0.13 mg/l or more.
D032	Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobenzene at 0.13 mg/l or more.
D033	Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobutadiene at 0.5 mg/l or more.
D034	Solid waste exhibiting the characteristic of TCLP toxicity for hexachloroethane at 3.0 mg/l or more.
D035	Solid waste exhibiting the characteristic of TCLP toxicity for methyl ethyl ketone at 200.0 mg/l or more.
D036	Solid waste exhibiting the characteristic of TCLP toxicity for nitrobenzene at 2.0 mg/l or more.
D037	Solid waste exhibiting the characteristic of TCLP toxicity for pentachlorophenol at 100 mg/l or more.
D038	Solid waste exhibiting the characteristic of TCLP toxicity for pyridine at 5.0 mg/l or more.
D039	Solid waste exhibiting the characteristic of TCLP toxicity for tetrachloroethylene at 0.7 mg/l or more.
D040	Solid waste exhibiting the characteristic of TCLP toxicity for trichloroethylene at 0.5 mg/l or more.

Hazardous  
Waste No.

Description of Hazardous Waste

- D041 Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,5 trichlorophenol at 400.0 mg/l or more.
- D042 Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,6 trichlorophenol at 2.0 mg/l or more.
- D043 Solid waste exhibiting the characteristic of TCLP toxicity for vinyl chloride at 0.2 mg/l or more.

B. Hazardous Wastes From Non-Specific Sources

- F001 The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, spent solvent mixtures/blends used in degreasing, and still bottom from the recovery of these spent solvents and spent solvent mixtures.
- F002 The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, orthodichlorobenzene, trichlorofluoromethane, 1,1,2-trichloroethane, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F004 The following spent non-halogenated solvents: cresols and cresylic acid, nitrobenzene, spent solvent mixtures and blends, and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F005 The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F006 Wastewater treatment sludges from electroplating operations.

Hazardous  
Waste No.

Description of Hazardous Waste

F007	Spent cyanide plating baths from electroplating operations.
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
F012	Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive.
F039	Multi-Source leachate.

C. Hazardous Wastes From Specific Sources

K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003	Wastewater treatment sludge from the production of molybdate orange pigments.
K004	Wastewater treatment sludge from the production of zinc yellow pigments.
K005	Wastewater treatment sludge from the production of chrome green pigments.
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
K007	Wastewater treatment sludge from the production of iron blue pigments.
K008	Oven residue from the production of chrome oxide green pigments.

Hazardous  
Waste No.

Description of Hazardous Waste

K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead based initiating compounds.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K052	Tank bottoms (leaded) from the petroleum refining industry.
K060	Ammonia still lime sludge from coking operations.
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.
K062	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332) (as defined in 35 Ill. Adm. Code 720.110).
K069	Emission control dust/sludge from secondary lead smelting.
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps and stabilizers containing chromium and lead.
K087	Decanter tank tar sludge from coking operations.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.

Hazardous Waste Codes Acceptable for Stabilization/Fixation

Hazardous  
Waste No.

Description of Hazardous Waste

D004	Solid waste exhibiting the characteristic of TCLP toxicity for arsenic at 5.0 mg/l or more.
D005	Solid waste exhibiting the characteristic of TCLP toxicity for barium at 100 mg/l or more.
D006	Solid waste exhibiting the characteristic of TCLP toxicity for cadmium at 1.0 mg/l or more.



<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

- |      |  |
|------|--|
| D007 | Solid waste exhibiting the characteristic of TCLP toxicity for chromium at 5.0 mg/l or more. |
| D008 | Solid waste exhibiting the characteristic of TCLP toxicity for lead at 5.0 mg/l or more.     |
| D009 | Solid waste exhibiting the characteristic of TCLP toxicity for mercury at 0.2 mg/l or more.  |
| D010 | Solid waste exhibiting the characteristic of TCLP toxicity for selenium at 1.0 mg/l or more. |
| D011 | Solid waste exhibiting the characteristic of TCLP toxicity for silver at 5.0 mg/l or more.   |

**B. Hazardous Waste From Specific Sources**

- |      |   |
|------|---|
| K062 | Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332) (as defined in 35 Ill. Adm. Code 720.110). |
|------|---|

**C. Hazardous Waste From Non-Specific Sources**

- |         |   |
|---------|---|
| F006(1) | Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum. |
| F007(1) | Spent cyanide plating bath solutions from electroplating operations.  |
| F008(1) | Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.   |
| F009(1) | Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.  |
| F010(1) | Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.  |

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
F011(1)	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
F012(1)	Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.
F019(1)	Wastewater treatment sludges from the chemical conversion coating of aluminum.

- (1) The facility cannot stabilize wastes containing parameters above land ban restrictions whose BDAT as identified in the Federal Register is not based on stabilization (i.e., cyanide).

Hazardous Waste Codes Acceptable for Fuel Blending

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

A. Characteristically Hazardous Waste

D001	Solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste.
D002	Solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste.
D003	Solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste.
D004	Solid waste exhibiting the characteristic of TCLP toxicity for arsenic at 5.0 mg/l or more.
D005	Solid waste exhibiting the characteristic of TCLP toxicity for barium at 100 mg/l or more.
D006	Solid waste exhibiting the characteristic of TCLP toxicity for cadmium at 1.0 mg/l or more.
D007	Solid waste exhibiting the characteristic of TCLP toxicity for chromium at 5.0 mg/l or more.
D008	Solid waste exhibiting the characteristic of TCLP toxicity for lead at 5.0 mg/l or more.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D009	Solid waste exhibiting the characteristic of TCLP toxicity for mercury at 0.2 mg/l or more.
D010	Solid waste exhibiting the characteristic of TCLP toxicity for selenium at 1.0 mg/l or more.
D011	Solid waste exhibiting the characteristic of TCLP toxicity for silver at 5.0 mg/l or more.
D018	Solid waste exhibiting the characteristic of TCLP toxicity for benzene at 0.5 mg/l or more.
D019	Solid waste exhibiting the characteristic of TCLP toxicity for carbon tetrachloride at 0.5 mg/l or more.
D021	Solid waste exhibiting the characteristic of TCLP toxicity for chlorobenzene at 100.0 mg/l or more.
D022	Solid waste exhibiting the characteristic of TCLP toxicity for chloroform at 6.0 mg/l or more.
D023	Solid waste exhibiting the characteristic of TCLP toxicity for o-cresol at 200.0 mg/l or more.
D024	Solid waste exhibiting the characteristic of TCLP toxicity for m-cresol at 200.0 mg/l or more.
D025	Solid waste exhibiting the characteristic of TCLP toxicity for p-cresol at 200.0 mg/l or more.
D026	Solid waste exhibiting the characteristic of TCLP toxicity for cresol at 200.0 mg/l or more.
D027	Solid waste exhibiting the characteristic of TCLP toxicity for 1,4 dichlorobenzene at 7.5 mg/l or more.
D028	Solid waste exhibiting the characteristic of TCLP toxicity for 1,2 dichloroethane at 0.5 mg/l or more.
D029	Solid waste exhibiting the characteristic of TCLP toxicity for 1,1 dichloroethylene at 0.7 mg/l or more.
D030	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4 dinitrotoluene at 0.13 mg/l or more.

Hazardous  
Waste No.

Description of Hazardous Waste

- |      |   |
|------|---|
| D032 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobenzene at 0.13 mg/l or more.      |
| D033 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobutadiene at 0.5 mg/l or more.     |
| D034 | Solid waste exhibiting the characteristic of TCLP toxicity for hexachloroethane at 3.0 mg/l or more.        |
| D035 | Solid waste exhibiting the characteristic of TCLP toxicity for methyl ethyl ketone at 200.0 mg/l or more.   |
| D036 | Solid waste exhibiting the characteristic of TCLP toxicity for nitrobenzene at 2.0 mg/l or more.            |
| D037 | Solid waste exhibiting the characteristic of TCLP toxicity for pentachlorophenol at 100.0 mg/l or more.     |
| D038 | Solid waste exhibiting the characteristic of TCLP toxicity for pyridine at 5.0 mg/l or more.                |
| D039 | Solid waste exhibiting the characteristic of TCLP toxicity for tetrachloroethylene at 0.7 mg/l or more.     |
| D040 | Solid waste exhibiting the characteristic of TCLP toxicity for trichloroethylene at 0.5 mg/l or more.       |
| D041 | Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,5 trichlorophenol at 400.0 mg/l or more. |
| D042 | Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,6 trichlorophenol at 2.0 mg/l or more.   |
| D043 | Solid waste exhibiting the characteristic of TCLP toxicity for vinyl chloride at 0.2 mg/l or more.          |

**B. Hazardous Wastes From Non-Specific Sources**

- |      |   |
|------|---|
| F001 | The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons, spent solvent mixtures/blends used in degreasing, and still bottom from the recovery of these spent solvents and spent solvent mixtures. |
|------|---|

Hazardous  
Waste No.

Description of Hazardous Waste

- F002 The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, orthodichlorobenzene, trichlorofluoromethane, 1,1,2-trichloroethane, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, methanol, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F004 The following spent non-halogenated solvents: cresols and cresylic acid, nitrobenzene, spent solvent mixtures and blends, and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F005 The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, 2-nitropropane, spent solvent mixtures and blends, and the still bottoms from the recovery of these spent solvents and spent solvent mixtures.

C. Hazardous Wastes from Specific Sources

- K001 Bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
- K009 Distillation bottoms from the production of acetaldehyde from ethylene.
- K010 Distillation side cuts from the production of acetaldehyde from ethylene.
- K011 Bottom stream from the wastewater stripper in the production of acrylonitrile.
- K013 Bottom stream from the acetonitrile column in the production of acrylonitrile.
- K014 Bottoms from the acetonitrile purification column in the production of acrylonitrile.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
K022	Distillation bottom tars from the production of phenol/acetone from cumene.
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
K029	Waste from the product stream stripper in the production of 1,1,1-trichloroethane.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K049	Slop oil emulsion solids from the petroleum refining industry.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	API separator sludge from the petroleum refining industry.
K052	Tank bottoms (leaded) from the petroleum refining industry.
K083	Distillation bottoms from aniline production.
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps and stabilizers containing chromium and lead.
K087	Decanter tank tar sludge from coking operations.
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.

Hazardous  
Waste No.      Description of Hazardous Waste

K094      Distillation bottoms from the production of phthalic anhydride from ortho-xylene.

K095      Distillation bottoms from the production of 1,1,1-trichloroethane.

K096      Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.

Hazardous  
Waste No.      Description of Hazardous Waste

Commercial Chemical Products

U001      Acetaldehyde

U003      Acetonitrile

U004      Acetophenone

U007      Acrylamide

U017      Benzyl Chloride

U019      Benzene

U025      Dichloroethyl ether

U030      4-Bromophenyl phenyl ether

U034      Chloral

U037      Chlorobenzene

U039      p-Chloro-m-cresol

U044      Chloroform

U045      Chloromethane, (Methyl Chloride)

U046      Chloromethyl methyl ether

U048      O-Chlorophenol

U051      Creosote

U052      Cresol (Cresylic acid)

U055      Cumene

U056      Cyclohexane

U057      Cyclohexanone

U069      Dibutyl phthalate

U070      o-Dichlorobenzene

U071      m-Dichlorobenzene

U072      p-Dichlorobenzene

U074      1,4-Dichloro-2-butene

U075      Dichlorodifluoromethane

U076      Ethane, 1,1-Dichloro-

U077      Ethylene Dichloride

U078      1,1-Dichloroethylene

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U080	Methane, Dichloro-
U081	2,4-Dichlorophenol
U082	2,6-Dichlorophenol
U083	Propane, 1,1-Dichloro
U089	Diethylstilbestrol
U090	Dihydrosafrole
U092	Dimethylamine (I)
U101	2,4-Dimethylphenol
U112	Ethyl acetate (I)
U113	Ethyl acrylate (I)
U117	Ethyl ether
U118	Ethyl methacrylate
U120	Fluoranthene
U121	Trichlorofluoromethane
U122	Formaldehyde
U123	Formic acid
U124	Furan
U125	Furfural (I)
U130	Hexachlorocyclopentadiene
U132	Hexachlorophene
U140	Isobutyl alcohol
U153	Methanethiol
U154	Methanol
U159	Methyl ethyl ketone (MEK)
U161	Methyl isobutyl ketone
U162	Methyl methacrylate
U163	N-Methyl-N'-Nitro-N-Nitroso-Guanidine
U165	Naphthalene
U166	1,4-Naphthoquinone
U169	Nitrobenzene (I,T)
U170	p-Nitrophenol
U172	N-Nitrosodi-n-butylamine
U173	N-Nitrosodiethanolamine
U183	Pentachlorobenzene
U184	Pentachloroethane
U186	1,3-Pentadiene
U187	Phenacetin
U190	Phthalic anhydride
U191	2-Picoline
U197	p-Benzoquinone
U203	Safrole
U208	1,1,1,2-Tetrachloroethane
U209	1,1,2,2-Tetrachloroethane
U210	Tetrachloroethylene



<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U211	Carbon Tetrachloride
U213	Tetrahydrofuran
U220	Toluene
U223	Toluene diisocyanate
U226	1,1,1-Trichloroethane
U227	1,1,2-Trichloroethane
U228	Trichloroethylene
U239	Xylene

Hazardous Waste Codes Acceptable for Storage and Transfer

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

A. Characteristically Hazardous Waste

D001	Solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste.
D002	Solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste.
D003	Solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste.
D004	Solid waste exhibiting the characteristic of TCLP toxicity for arsenic at 5.0 mg/l or more.
D005	Solid waste exhibiting the characteristic of TCLP toxicity for barium at 100 mg/l or more.
D006	Solid waste exhibiting the characteristic of TCLP toxicity for cadmium at 1.0 mg/l or more.
D007	Solid waste exhibiting the characteristic of TCLP toxicity for chromium at 5.0 mg/l or more.
D008	Solid waste exhibiting the characteristic of TCLP toxicity for lead at 5.0 mg/l or more.

LWE:MAS:1at/sp/218Y,1-91

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D009	Solid waste exhibiting the characteristic of TCLP toxicity for mercury at 0.2 mg/l or more.
D010	Solid waste exhibiting the characteristic of TCLP toxicity for selenium at 1.0 mg/l or more.
D011	Solid waste exhibiting the characteristic of TCLP toxicity for silver at 5.0 mg/l or more.
D012	Solid waste exhibiting the characteristic of TCLP Toxicity for Endrin at 0.02 mg/l or more.
D013	Solid Waste exhibiting the characteristic of TCLP Toxicity for Lindane at 0.4 mg/l or more.
D014	Solid Waste exhibiting the characteristic of TCLP Toxicity for Methoxychlor at 10.0 mg/l or more.
D015	Solid waste exhibiting the characteristic of TCLP Toxicity for Toxaphene at 0.5 mg/l or more.
D016	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4-D at 10.0 mg/l or more.
D017	Solid waste exhibiting the characteristic of TCLP Toxicity for 2,4,5-TP (Silvex) at 1.0 mg/l or more.
D018	Solid waste exhibiting the characteristic of TCLP toxicity for benzene at 0.5 mg/l or more.
D019	Solid waste exhibiting the characteristic of TCLP toxicity for carbon tetrachloride at 0.5 mg/l or more.
D020	Solid waste exhibiting the characteristic of TCLP Toxicity for chlordane at 0.03 mg/l or more.
D021	Solid waste exhibiting the characteristic of TCLP toxicity for chlorobenzene at 100.0 mg/l or more.
D022	Solid waste exhibiting the characteristic of TCLP toxicity for chloroform at 6.0 mg/l or more.
D023	Solid waste exhibiting the characteristic of TCLP toxicity for o-cresol at 200.0 mg/l or more.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
D024	Solid waste exhibiting the characteristic of TCLP toxicity for m-cresol at 200.0 mg/l or more.
D025	Solid waste exhibiting the characteristic of TCLP toxicity for p-cresol at 200.0 mg/l or more.
D026	Solid waste exhibiting the characteristic of TCLP toxicity for cresol at 200.0 mg/l or more.
D027	Solid waste exhibiting the characteristic of TCLP toxicity for 1,4 dichlorobenzene at 7.5 mg/l or more.
D028	Solid waste exhibiting the characteristic of TCLP toxicity for 1,2 dichloroethane at 0.5 mg/l or more.
D029	Solid waste exhibiting the characteristic of TCLP toxicity for 1,1 dichloroethylene at 0.7 mg/l or more.
D030	Solid waste exhibiting the characteristic of TCLP toxicity for 2,4 dinitrotoluene at 0.13 mg/l or more.
D031	Solid waste exhibiting the characteristic of TCLP Toxicity for heptachlor (and its epoxide) at 0.008 mg/l or more.
D032	Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobenzene at 0.13 mg/l or more.
D033	Solid waste exhibiting the characteristic of TCLP toxicity for hexachlorobutadiene at 0.5 mg/l or more.
D034	Solid waste exhibiting the characteristic of TCLP toxicity for hexachloroethane at 3.0 mg/l or more.
D035	Solid waste exhibiting the characteristic of TCLP toxicity for methyl ethyl ketone at 200.0 mg/l or more.
D036	Solid waste exhibiting the characteristic of TCLP toxicity for nitrobenzene at 2.0 mg/l or more.
D037	Solid waste exhibiting the characteristic of TCLP toxicity for pentachlorophenol at 100.0 mg/l or more.
D038	Solid waste exhibiting the characteristic of TCLP toxicity for pyridine at 5.0 mg/l or more.

Hazardous  
Waste No.

Description of Hazardous Waste

- D039 Solid waste exhibiting the characteristic of TCLP toxicity for tetrachloroethylene at 0.7 mg/l or more.
- D040 Solid waste exhibiting the characteristic of TCLP toxicity for trichloroethylene at 0.5 mg/l or more.
- D041 Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,5 trichlorophenol at 400.0 mg/l or more.
- D042 Solid waste exhibiting the characteristic of TCLP toxicity for 2,4,6 trichlorophenol at 2.0 mg/l or more.
- D043 Solid waste exhibiting the characteristic of TCLP toxicity for vinyl chloride at 0.2 mg/l or more.

Hazardous  
Waste No.

Description of Hazardous Waste

B. Hazardous Wastes From Non-Specific Sources

- F001 The following spent halogenated solvents used in degreasing tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures and blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004 or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F002 The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, orthodichlorobenzene, trichlorofluoromethane; and 1,1,2-trichloroethane; all spent solvent mixtures and blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.

Hazardous  
Waste No.

Description of Hazardous Waste

- F003 The following spent non-halogenated solvents: xylene, acetone, ethylacetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures and blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures and blends containing, before use, one or more of the above non-halogenated solvents and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004 or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F004 The following spent non-halogenated solvents: cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures and blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002 or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F005 The following spent non-halogenated solvents: toluene, methyl ethylketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol and 2-nitropropane; all spent solvent mixtures and blends, containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002 or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
- F006 Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
- F007 Spent cyanide plating bath solutions from electroplating operations.
- F008 Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.
- F009 Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.
- F010 Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.

Hazardous  
Waste No.

Description of Hazardous Waste

- F011 Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.
- F012 Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.
- F019 Wastewater treatment sludges from the chemical conversion coating of aluminum.
- F020 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri-, or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2, 4, 5-trichlorophenol.)
- F021 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.
- F022 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.
- F023 Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)
- F024 Process wastes including but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysis and wastes listed in this Section 721.132.)

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

- |      |  |
|------|--|
| F025 | Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.   |
| F026 | Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate or component in a formulating process) of tetra-, penta- or hexachlorobenzene under alkaline conditions.   |
| F027 | Discarded unused formulations containing tri-, tetra- or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from pre-purified 2,4,5-trichlorophenol as the sole component.   |
| F028 | Residues resulting from the incineration or thermal treatment of soil contaminated with Hazardous Waste Numbers F020, F021, F023, F026 and F027.   |
| F032 | Wastewaters, process residuals, preservative drippage and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with Section 721.135 and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote or pentachlorophenol. |
| F034 | Wastewaters, process residuals, preservative drippage and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote or pentachlorophenol.  |
| F035 | Wastewaters, process residuals, preservative drippage and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote or pentachlorophenol.   |

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

- |      |  |
|------|--|
| F037 | Petroleum refinery primary oil/water/solids separation sludge -- Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oil cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated in aggressive biological treatment units as defined in subsection (b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.  |
| F038 | Petroleum refinery secondary (emulsified) oil/water/solids separation sludge -- Any sludge or float generated from the physical or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from the physical or chemical separation of oil/water/solids in process wastewaters and oil cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated in aggressive biological treatment units as defined in Subsection (b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units), F037, K048 and K051 wastes are not included in this listing. |
| F039 | Leachate resulting from the treatment, storage or disposal of wastes classified by more than one waste code under Subpart D, or from a mixture of wastes classified under Subparts C and D. (Leachate resulting from the management of one or more of the following USEPA hazardous wastes and no other hazardous wastes retains its hazardous waste code(s): F020, F021, F022, F023, F026, F027 or F028.)   |

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

C. Hazardous Wastes From Specific Sources

- |      |   |
|------|---|
| K001 | Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol. |
|------|---|



<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003	Wastewater treatment sludge from the production of molybdate orange pigments.
K004	Wastewater treatment sludge from the production of zinc yellow pigments.
K005	Wastewater treatment sludge from the production of chrome green pigments.
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
K007	Wastewater treatment sludge from the production of iron blue pigments.
K008	Oven residue from the production of chrome oxide green pigments.
K009	Distillation bottoms from the production of acetaldehyde from ethylene.
K010	Distillation side cuts from the production of acetaldehyde from ethylene.
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.
K015	Still bottoms from the distillation of benzyl chloride.
K016	Heavy ends or distillation residues from the production or carbon tetrachloride.
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K018	Heavy ends from the fractionation column in ethyl chloride production.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K019	Heavy ends of the distillation of ethylene dichloride in thylene dichloride production.
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K021	Aqueous spent antimony catalyst waste from fluoromethanes production.
K022	Distillation bottom tars from the production of phenol/acetone from cumene.
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K025	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K026	Stripping still tails from the production of methy ethyl pyridines.
K027	Centrifuge and distillation residues from toluene diisocyanate production.
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichlorethane.
K029	Waste from the product stream stripper in the production of 1,1,1-trichloroethane.
K030	Column bottoms or heavy ends from the combined production of trichlorethylene and perchloroethylene.
K031	By-product salts generated in the production of MSMA and cacodylic acid.
K032	Wastewater treatment sludge from the production of chlordane.
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K035	Wastewater treatment sludges generated in the production of creosote.
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.
K037	Wastewater treatment sludges from the production of disulfoton.
K038	Wastewater from the washing and stripping of phorate production.
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.
K040	Wastewater treatment sludge from the production of phorate.
K041	Wastewater treatment sludge from the production of toxaphene.
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.
K043	2,6-Dichlorophenol waste from the production of 2,4-D.
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.
K045	Spent carbon from the treatment of wastewater containing explosives.
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead based initiating compounds.
K047	Pink/red water from TNT operations.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K049	Slop oil emulsion solids from the petroleum refining industry.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	API separator sludge from the petroleum refining industry.
K052	Tank bottoms (leaded) from the petroleum refining industry.
K060	Ammonia still lime sludge from coking operations.

Hazardous  
Waste No.

Description of Hazardous Waste

- |      |  |
|------|--|
| K061 | Emission control dust/sludge from the primary production of steel in electric furnaces.  |
| K062 | Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332) (as defined in 35 Ill. Adm. Code 720.110).  |
| K064 | Acid plant blowdown slurry or sludge resulting from the thickening of blowdown slurry from primary copper production.  |
| K065 | Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.   |
| K066 | Sludge from treatment of process wastewater or acid plant blowdown from primary zinc production.   |
| K069 | Emission control dust/sludge from secondary lead smelting.   |
| K071 | Brine purification muds from the mercury cell process in chlorine production, where separately pre-purified brine is not used.   |
| K073 | Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.   |
| K083 | Distillation bottoms from aniline production.  |
| K084 | Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.   |
| K085 | Distillation or fractionation column bottoms from the production of chlorobenzenes.  |
| K086 | Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps and stabilizers containing chromium and lead. |
| K087 | Decanter tank tar sludge from coking operations.   |
| K088 | Spent potliners from primary aluminum reduction.   |
| K090 | Emission control dust or sludge from ferrochromiumsilicon production.  |

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K091	Emission control dust or sludge from ferrochromium production.
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
K098	Untreated process wastewater from the production of toxaphene.
K099	Untreated wastewater from the production of 2,4-D.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic compounds.
K103	Process residues from aniline extraction from the production of aniline.
K104	Combined wastewater streams generated from nitrobenzene/aniline production.
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazines.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UMDH) from carboxylic acid hydrazines.
K109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UMDH) from carboxylic acid hydrazines.
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UMDH) from carboxylic acid hydrazines.
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.
K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
K113	Condensed liquid light ends from the (T) purification of toluenediamine in the production of toluenediamine via hydrogenation dinitrotoluene.
K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K115	Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K118	Spent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K123	Process wastewater (including supernates, filtrates, and wash waters) from the production of ethylenebisdithiocarbamic acid and its salts.
K124	Reactor vent scrubber water from the production of ethylene-bisdithiobarbamic acid and its salts.

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

K125	Filtration, evaporation, and centrifugation of solids from the production of ethylenebisdithio carbonic acid and its salts.
K126	Baghouse dust and floor sweepings in milling and packaging operations from production or formulation of ethylenebisdithiocarbamic acid and its salts.
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.

Discarded Commercial Chemical Products, Off-Specification  
Species, Container Residues, and Spill Residues Thereof:

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
--------------------------------	---------------------------------------

P001	Warfarin, when present at concentrations greater than 0.3%.
P002	1-Acetyl-2-thiourea
P003	Acrolein
P004	Aldrin
P005	Allyl alcohol
P006	Aluminum phosphide
P007	5-(Aminomethyl)-3-isoxazolol
P008	4-Aminopyridine
P009	Ammonium picrate
P010	Arsenic acid
P011	Arsenic pentoxide
P012	Arsenic trioxide
P013	Barium cyanide
P014	Benzenethiol
P015	Beryllium dust
P016	Bis-chloromethyl) ether
P017	Bromoacetone
P018	Brucine
P020	Dinoseb
P021	Calcium cyanide

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
P022	Carbon bisulfide
P023	Chloroacetaldehyde
P024	p-Chloroaniline
P026	1-(o-Chlorophenyl) thiourea
P027	3-Chloropropionitrile
P028	Benzyl chloride
P029	Copper cyanides
P030	Cyanides (soluble cyanide salts) not elsewhere specified.
P031	Cyanogen
P033	Cyanogen chloride
P034	4,6-Dinitro-o-cyclohexylphenol
P036	Dichlorophenylarsine
P037	Dieldrin
P038	Diethylarsine
P039	Disulfoton
P040	0,0-Diethyl 0-pyrazinyl phosphoro-thioate
	Diethyl-p-nitrophenyl phosphate
P042	Epinephrine
P043	Diisopropyl fluorophosphate
P044	Dimethoate
P045	Thiofanox
P046	Ethanamine, 1,10dimethyl-2-phenyl-
P047	4,6-Dinitro-o-cresol and salts
P048	2,4-Dinitrophenol
P049	2,4-Dithiobiuret
P050	Endosulfan
P051	Endrin
P054	Ethylenimine
P056	Fluorine
P057	Fluoroacetamide
P058	Fluoroacetic acid, sodium salt
P059	Heptachlor
P060	Hexachlorohexahydro-endo, endo-dimethanonaphthalene
P062	Hexaethyl tetraphosphate
P063	Hydrogen cyanide
P064	Methyl Isocyanate
P065	Mercury fulminate
P066	Methomyl
P067	2-Methylaziridine
P068	Methyl hydrazine
P069	2-Methylactonitrile
P070	Aldicarb



<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
P071	Methyl parathion
P072	alpha-Naphthylthiourea
P073	Nickel carbonyl
P074	Nickel cyanide
P075	Nicotine and salts
P076	Nitric oxide
P077	p-Nitroaniline
P078	Nitrogen dioxide
P081	Nitroglycerine
P082	N-Nitrosodimethylamine
P084	N-Nitrosomethylvinylamine
P085	Octamethylpyrophosphoramide
P087	Osmium oxide
P088	Endothall
P089	Parathion
P092	Phenylmercuric acetate
P093	N-Phenylthiourea
P094	Phorate
P095	Phosgene
P096	Phosphine
P097	Pamphur
P098	Potassium cyanide
P099	Potassium silver cyanide
P101	Propanenitrile
P102	Propargyl alcohol
P103	Selenourea
P104	Silver cyanide
P105	Sodium azide
P106	Sodium cyanide
P107	Strontium Sulfide
P108	Strychnine and salts
P109	Tetraethyldithiopyrophosphate
P110	Tetraethyl lead
P111	Tetraethylpyrophosphate
P112	Tetranitromethane
P113	Thallic oxide
P114	Thallium(I) selenide
P115	Thallium(I) sulfate
P116	Thiosemicarbazide
P118	Trichloromethanethiol
P119	Vanadic acid, ammonium salt
P120	Vanadium pentoxide

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
P121	Zinc cyanide
P122	Zinc phosphide
P123	Toxaphene

Commercial Chemical Products, Manufacturing  
Chemical Intermediates, or Off-Specification  
Commercial Chemical Products:

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U001	Acetaldehyde
U002	Acetone
U003	Acetonitrile
U004	Acetophenone
U005	2-Acetylaminofluorene
U006	Acetyl chloride
U007	Acrylamide
U008	Acrylic acid
U009	Acrylonitrile
U010	Mitomycin C
U011	Amitrole
U012	Aniline
U014	Auramine
U015	Azaserine
U016	Benz(c)acridine
U017	Benzal chloride
U018	Benz(a)anthracene
U019	Benzene
U020	Benzenesulfonyl chloride
U021	Benzidine
U022	Benzo(a)pyrene
U023	Benzotrichloride
U024	Bis(2-chloroethoxy) methane
U025	Dichloroethyl ether
U026	Chloronaphazine
U027	Bis(2-chloroisopropyl) ether
U028	Bis(2-ethylhexyl) phthalate
U029	Bethyl bromide
U030	Benzene, 1-bromo-4-phenoxy-
U031	N-Butyl alcohol
U032	Calcium chromate
U033	Carbonyl fluoride

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U034	Chloral
U035	Chlorambucil
U036	Chlordane, technical
U037	Chlorobenzene
U038	Ethyl 4,4'-dichlorobenzilate
U039	4-Chloro-m-cresol
U041	1-Chloro-2,3-epoxypropane
U042	2-Chloroethyl vinyl ether
U043	Vinyl chloride
U044	Chloroform
U045	Methyl chloride
U046	Chloromethyl methyl ether
U047	beta-Chloronaphthalene
U048	o-Chlorophenol
U049	Benzenamine, 4-chloro-2-methyl-
U050	Chrysene
U051	Creosote
U052	Cresols
U053	Crotonaldehyde
U055	Cumene
U056	Cyclohexane
U057	Cyclohexanone
U058	Cyclophosphamide
U059	Daunomycin
U060	DDD
U061	DDT
U062	Diallate
U063	Dibenz[a,h]anthracene
U064	Dibenz[a,i]pyrene
U066	1,2-Dibromo-e-chloropropane
U067	Ethylene dibromide
U068	Methylene bromide
U069	Dibutyl phthalate
U070	o-Dichlorobenzene
U071	m-Dichlorobenzene
U072	p-Dichlorobenzene
U073	3-3'Dichlorobenzidine
U074	1,4-Dichloro-2-butene
U075	Dichlorodifluoromethane
U076	Ethylidene dichloride
U077	Ethylene dichloride
U078	1,1-Dichloroethylene
U079	1,2-Dichloroethylene
U080	Methylene chloride

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U081	2,4-Dichlorophenol
U082	2,6-Dichlorophenol
U083	1,2-Dichloropropane
U084	1,3-Dichloropropane
U085	1,2:3,4-Diepoxybutane
U086	N,N-Diethylhydrazine
U087	o,o-Diethyl-S-methyl-dithiophosphate
U088	Diethyl phthalate
U089	Diethylstilbestrol
U090	Dihydrosafrole
U091	3,3'-Dimethoxybenzidine
U092	Dimethylamine
U093	Dimethylaminoazobenzene
U094	7,12-Dimethylbenz[a]anthracene
U095	3,3'-Dimethylbenzidine
U096	Alpha, alpha-Dimethylbenzyhydro-peroxide
U097	Dimethylcarbamoyl chloride
U098	1,1-Dimethylhydrazine
U099	1,2-Dimethylhydrazine
U101	2,4-Dimethylphenol
U102	Dimethyl phthalate
U103	Dimethyl sulfate
U105	2,4-Dinitrotoluene
U106	2,6-Dinitrotoluene
U107	Di-n-octyl phthalate
U108	1,4-Dioxane
U109	1,2-Diphenylhydrazine
U110	Dipropylamine
U111	Di-N-propylnitrosamine
U112	Ethyl acetate
U113	Ethyl acrylate
U114	Ethylenebis(dithiocarbamic acid), salts and esters
U115	Ethylene oxide
U116	Ethylene thiourea
U117	Ethyl ether
U118	Ethyl methacrylate
U119	Ethyl methanesulfonate
U120	Fluoranthene
U121	Metane, trichlorofluoro-
U122	Formaldehyde
U123	Formic acid
U124	Furan
U125	Furfural
U126	Glycidylaldehyde

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U127	Hexachlorobenzene
U128	Hexachlorobutadene
U129	Lindane
U130	Hexachlorocyclopentadene
U131	Hexachloroethane
U132	Hexachlorophene
U133	Hydrazine
U134	Hydrogen fluoride
U135	Hydrogen sulfide
U136	Cacodylic acid
U137	Indeno[1,2,3-cd]pyrene
U138	Iodomethane
U140	Isobutyl alcohol
U141	Isosafrole
U142	Kepone
U143	Lasiocarpine
U144	Lead acetate
U145	Lead phosphate
U146	Lead subacetate
U147	Maleic anhydride
U148	Maleic hydrazide
U149	Malononitrile
U150	Melphalan
U151	Mercury
U152	Methacrylonitrile
U153	Methanethiol
U154	Methanol
U155	Methapyrilene(T)
U156	Methyl chlorocarbonate
U157	3-Methylcholanthrene
U158	4,4'-Methylenebis(2-chloroaniline)
U159	Methyl ethyl ketone
U160	Methyl ethyl ketone peroxide
U161	Methyl isobutyl ketone
U162	Methyl methacrylate
U163	N-methyl-N'-nitro-N-nitrosoquandine
U164	Methylthiouracil
U165	Napthalene
U166	1,4-Naphthalenedione
U167	1-Naphthylamine
U168	2-Naphthylamine
U169	Nitrobenzene
U170	p-Nitrophenol
U171	2-Nitropropane
U172	N-Nitrosodi-n-butylamine

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U173	N-Nitrosodiethanolamine
U174	N-Nitrosodiethylamine
U176	N-Nitroso-N-ethylurea
U177	N-Nitroso-N-methylurea
U178	N-Nitroso-N-methylurethane
U179	N-Nitrosopiperidine
U180	Nitrosopyrrolidine
U181	5-Nitro-o-toluidine
U182	Paraldehyde
U183	Pentachlorobenzene
U184	Pentachloroethane
U185	Pentachloronitrobenzene
U186	1,3-Pentadiene
U187	Phenacetin
U188	Phenol
U189	Phosphorous sulfide
U190	Phthalic anhydride
U191	Pyridine, 2-methyl-
U192	Pronamide
U193	1,3-Propane sultone
U194	1-Propanamine
U196	Pyridine
U197	p-Benzoquinon
U200	Reserpine
U201	Resorcinol
U202	Saccharin and salts
U203	Safrole
U204	Selenium dioxide
U205	Selenium disulfide
U206	Streptozotocin
U207	1,2,4,5-Tetrachlorobenzene
U208	1,1,1,2,-Tetrachloroethane
U209	1,1,2,2,-Tetrachloroethane
U210	Tetrachloroethylene
U211	Carbon tetrachloride
U213	Tetrahydrofuran
U214	Thallium(1) acetate
U215	Thallium(1) carbonate
U216	Thallium(1) chloride
U217	Thallium(1) nitrate
U218	Thioacetamide
U219	Thiourea
U220	Toluene
U221	Toluenediamine

<u>Hazardous Waste No.</u>	<u>Description of Hazardous Waste</u>
U222	o-Toluidine hydrochloride
U223	Toluene hydrochloride
U225	Bromoform
U226	1,1,1-Trichloroethane
U227	1,1,2-Trichloroethane
U228	Trichloroethene
U234	sym-Trinitrobenzene
U235	Tris(2,3-dibromopropyl) phosphate
U236	Trypan blue
U237	Uracil mustard
U238	Ethyl carbamate (urethan)
U239	Xylene
U240	2,3-D, salts and esters
U243	Hexachloropropene
U244	Thiuram
U246	Bromine cyanide
U247	Methoxychlor
U248	Warfarin, when present at concentrations of 0.3% or less
U249	Zinc phosphide, when present at concentrations of 10% or less
U328	o-Toluidine
U353	p-Toluidine
U359	Ethylene glycol monoethyl ether

0316000051  
RCRA Log No. 16  
Page B-1 of 6

**ATTACHMENT B**  
**INSPECTION SCHEDULE**  
**0316000051**



Table I: General Inspection Schedule  
Security Devices

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Fence	. Inspect entire perimeter for breaches or damage	Daily
Gates	. Check for proper gate lock function	Daily
Warning Signs	. Check for presence of warning signs	Daily
Lighting System	. Check lights for operability	Daily

Table II: General Inspection Schedule,  
Safety & Emergency Equipment

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Protective Gear (e.g., Helmets, Face Shields, Goggles, Boots, Gloves, Acid Resistant Clothing, Disposable Suits, Disposable Bags)	. Check accessibility	Daily
	. Check for adequate supply	Daily
	. Check for deterioration, damage	Daily
Breathing Apparatus	. Check for accessibility	Daily
	. Check for adequate supply, full charge on canisters, and all air tanks	Daily
	. Check for deterioration and damage	Daily
	. Check for function	Monthly
First Aid Kits	. Check accessibility	Daily
	. Check for adequate supply	Daily

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Emergency Showers	. Check that units activate and shut off properly	Daily
	. Check accessibility	Daily
Water Lines	. Check for adequate pressure	Monthly
Internal (Phone or Radio)/External (Phase) Communications Systems	. Check accessibility	Daily
	. Check for operations	Daily
Fire Extinguishers	. Check pressure gauge for full charge indication	Daily
	. Check inspection tag to insure annual maintenance by outside fire service is up-to-date	Daily
	. Check seal to ensure no one has used extinguisher	Daily
	. Check to ensure access to units is not blocked	Daily
Absorbent Supply	. Check for adequate supply	Daily
Recovery Drums	. Check for adequate supply	Daily
Other Emergency and Decontamination Equipment	. Check accessibility	Daily
	. Check for adequate supply	Daily
	. Check for deterioration/damage	Daily
Respirators and Cartridges	. Check for adequate supply	Daily
Fire Department Pull Stations	. Check for operability	Monthly
	. Check accessibility, location signs	Daily

Table III: Tank Farms Inspection Schedule

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Storage Tanks Containment Area	. Check for evidence of spilled materials	Daily
	. Check for cracks and gaps in, or damage to containment base, sumps and drains, and their coatings.	Daily
	. Check for evidence of seepage outside containment (e.g. discoloration)	Daily
	. Check for debris, cleanup residue, improperly stored equipment	Daily
Storage Tanks	. Inspect tank exterior for cracks, leaks, discoloration, and obvious deformation	Daily
	. Check tank integrity	Annually
Access Hatches, Vents, and Sampling Ports	. Check for leaks	Daily
	. Check for damage	Daily
Fill/Drain and Overflow Piping	. Inspect piping for leaks	Daily
	. Inspect valve seals for leaks	Daily
	. Check that handles are not bent or damaged	Daily
Liquid Levels	. Check if operators log book is up to date	Daily
	. Check tank liquid level indicators for operability	Daily
All Ancillary Equipment	. Visual inspection for leaks	Daily
	. Conduct leak test or approved integrity assessment	Annually

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Tank Truck loading/ Unloading Area	. Check for evidence of spills or releases in unloading area	Daily
	. Check for removal of spill absorbent and cleanup materials	Daily
	. Check sump, grating and curbs for cracks or other damage	Daily
	. Inspect hoses for deterioration or leakage	Daily
	. Inspect hose couplings and valves for leakage	Daily
	. Inspect containment system for deterioration	Daily

Table IV: Container Storage Area Inspection Schedule

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Container Storage Area	. Check for evidence of spilled material on slab, ramps, drains, sumps	Daily
	. Check for removal of absorbent materials and cleanup rags	Daily
	. Check for, cracks and gaps in, or damage to, containment bases, sump and drains and coatings	Daily
	. Check for erosion, uneven settlement, etc.	Daily
	. Check for corrosion of grating over drains and sumps	Daily
	. Check for condition and availability of overpack containers	Monthly

<u>ITEM</u>	<u>INSPECTION ELEMENT/TYPE OF PROBLEM</u>	<u>INSPECTION FREQUENCY</u>
Stored Containers	. Check for drums being in good condition	Daily
	. Check that drums are not open	Daily
	. Check for proper placement	Daily
	. Check adequacy of aisle space	Daily
	. Check height of stacks	Daily
	. Check storage capacity not exceeded	Daily
	. Check for proper labeling	Daily
Container Loading/ Unloading Area	. Check for damaged containers	Daily
	. Check for evidence of spilled material on slabe and ramps used	Daily
	. Check for removal of used absorbent and cleaning materials	Daily
	. Check for prompt container removal from receiving area	Daily

0316000051  
RCRA Log No. 16  
Page C-1 of 3

ATTACHMENT C  
CONSTRUCTION CERTIFICATION FORM  
NO. 0316000051



**Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276**

---

**DATE:** March 22, 1989  
**TO:** Facilities Permitted Under the IEPA RCRA and UIC Programs  
**FROM:** DLPC Permit Section  
**SUBJECT:** Certification Documentation for Construction Required by IEPA-Issued Permits

When submitting certifications required by a Part B or UIC permit for construction of any newly developed areas or units, please complete the attached certification form. Modifications to the construction of UIC wells should be certified with this form, but the installation of groundwater monitoring wells does not require this certification (unless specifically required by the permit). This will help to ensure that the submittal reaches its proper destination and that the certification will meet the regulatory requirements. Sending the Field Operations Section (F.O.S.) copy directly to the Field Office is acceptable as long as all copies have a completed copy of the enclosed form attached and you advise the Permit Section, in writing, that a copy has been sent to F.O.S.

A documentation report and as-built drawings (sealed and signed by an Illinois Professional Engineer) must be included with this certification. Information necessary to document the construction of the unit or area and to support the certification must be contained within the report. This report should include a thorough description of all construction data and drawings and should be formatted in a logical and orderly manner. The construction documentation report must contain at least the following items:

1. An introduction and summary which describes the scope and purpose of the project;
2. A description of all construction activities, including quality assurance and quality control;
3. As-built drawings of the area or unit and a description of any deviations from the plans and specifications approved in the permit;
4. A description of the test methods used and justification for any deviations from standard test methods;
5. A summary of test results, identification of any samples which did not meet the specifications and the corrective action and retesting which was undertaken in response to any failing test results;
6. Any necessary information associated with construction of the area or unit to document that construction was in accordance with the plans and specifications approved by the permit;
7. Information specifically required by the permit; and
8. Any available photographs of the area or unit.

If you have any questions, please contact a member of the DLPC Permit Section at 217/782-6762.

BC:rd1117k/49

Enclosure

cc: Permit Section  
Compliance Section  
Glenn Savage

# CERTIFICATION

This statement is to be completed by both the responsible officer and the registered professional engineer upon completion of construction in accordance with 35 IAC Section 702.126. Submit one copy of the certification with original signatures and two additional copies (four additional copies for UIC wells). Forward these certification statements and any information required by the permit to the following address:

Illinois Environmental Protection Agency  
Division of Land Pollution Control - #24  
Permit Section  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

FACILITY NAME: \_\_\_\_\_

IEPA SITE CODE: \_\_\_\_\_

U.S. EPA ID NO.: IL \_\_\_\_\_

PART B PERMIT LOG #/UIC PERMIT #: \_\_\_\_\_

PERMIT (OR MODIFICATION) ISSUANCE DATE: \_\_\_\_\_

PERMIT CONDITION NO. REQUIRING CERTIFICATION: \_\_\_\_\_

The \_\_\_\_\_ has been constructed in accordance with the specifications in the Part B/UIC Permit. Documentation that the construction was in accordance with the permit is contained in the enclosed report. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
Signature of Owner/Operator

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Signature of Registered P.E.

\_\_\_\_\_  
Name of Registered P.E. and  
Illinois Registration Number

\_\_\_\_\_  
Date

(P.E. SEAL)

BC:dks/3924j, 27



0316000051  
RCRA Log No. 16  
Page D-1 of D-13

**ATTACHMENT D**  
**SPECIAL CONDITIONS**  
**NO. 0316000051**

**A. Waste Analysis**

1. All hazardous waste blended into a fuel to be burned for energy recovery must have a heating value of at least 5,000 BTU/lb. This requirement may be superseded if Clean Harbors provide documentation to the Agency that all facilities which receive the waste fuel have a certification of compliance based on Clean Harbor's specification.
2. The Permittee shall document the receipt of each load of waste at that site in the operating record. The results of any analyses and any supplemental analyses performed on any received waste shall also be placed in the operating record.
  - a. If manifest discrepancies are encountered, the procedures used to reconcile the discrepancy shall be included in the operating record;
  - b. If a manifest discrepancy is not resolved within (15) days after receiving the waste, the Permittee must immediately submit a letter to the Agency's Division of Land Pollution Control, describing the discrepancy and attempts to reconcile it and a copy of the manifest or shipping paper at issue.
3. Used oil which is received at this facility for blending into a fuel program or re-refining is subject to a TCLP analysis unless an analysis (by EPA Method 9077) shows total chlorine is less than 1000 ppm or an adequate rebuttal is made. Used oil destined for other uses besides a fuel program or re-refining (disposal, road application, . . .) are subject to the full TCLP requirements.
4. Storage

Before any wastes are placed into a storage unit, facility management will assess the compatibility of the waste with the storage unit materials of construction and with wastes already stored therein.

- a. Containerized Storage Compatibility will be assessed by performing a Liquid Waste Compatibility Test on the waste received for container storage with a composite sample aggregating all samples taken from the candidate storage area in a seven day period. If the incoming sample passes the Liquid Waste Compatibility criteria, an aliquot of the incoming sample will be added to the composite to create a compatibility composite for the next sample.

- b. Tank Farm Compatibility will be assessed by performing a Liquid Waste Compatibility Test on the liquid received for bulk storage with a composite sample of the tanks within the containment system to which the new waste will be added.

The referenced procedure, Liquid Waste Compatibility Test D5058A, is described in the following publication "Annual Book of ASTM Standards", American Society for Testing Materials, 1916 Race Street, Philadelphia, PA 19013, most recent edition.

The test shall be conducted in the following manner, a 100 ml. proportional composite shall be made of the existing inventory in the storage area. A 5 ml. sample of the composite shall be mixed with a 5 ml. sample of the incoming waste to determine a compatibility. If no reaction is observed, 5 ml. of the incoming waste is added to the larger (remaining 95 ml.) composite in preparation for testing the next sample.

5. Each bulk shipment will be visually inspected and sampled to verify that the contents match the pre-acceptance description of the waste.

In the case of container shipments, each container in the shipment will be visually inspected by obtaining a full depth vertical sample to verify that the contents match the pre-acceptance physical description of the waste.

The Permittee shall determine visual characteristics (color, obvious viscosity or lack thereof, phase character, odor,...) which are appropriate to each stream to aid in determining if the physical appearance of the waste received conforms to the description of the waste when initially evaluated. Changes in the visually determined characteristics require contacting the generator to reconcile the discrepancies. If the discrepancies cannot be reconciled this is a new waste which requires performing a pre-qualification analysis to fully evaluate its compatibility to the facility's operation.

6. The company shall conduct pre-acceptance analysis in accordance with the approved waste analysis plan and the following requirements:
- a. At least every five years, a pre-acceptance analyses shall be conducted in accordance with the most current instructions for special waste stream applications.

## B. Reporting Requirements

1. Any incident which requires implementation of the contingency plan shall be recorded in the facilities operating record in an incident

log which is maintained separate from the facilities other than operating records. The incident log must include a copy of each incident report. In addition to the information identified in the approved application, the incident report must include, at a minimum, the waste management units involved in the incident, the cause of the release, measures taken to correct the situation and prevent a reoccurrence.

**C. Closure**

1. At least 180 days prior to closure of any hazardous waste management unit at this facility the permittee shall submit its closure plan to insure it complies with the current Agency standards in effect at the time of closure.

**D. General Operating Requirements**

1. The permittee is prohibited from conducting any waste management activities outside the permitted boundaries of this facility without a permit modification and proof of compliance with Section 3.32 and Section 39(c) of the Act. Waste management includes storage, staging, treatment, sampling or all other activities not associated with transportation of waste.

**E. Construction Requirements**

1. The proposed hazardous waste management units must be constructed in accordance with the approved permit application and the Part B permit. Modification to the tank system and tank or container, secondary containment system including changes to physical dimensions or materials of construction are subject to the permit modification requirements prior to construction. Changes in structural members or foundation design which are completed prior to the operation of the hazardous waste management unit and have been certified by the Illinois licensed structural engineer of record are not subject to the permit modification requirements provided the changes are made solely to maintain the structural integrity of the unit.
2. The Permittee shall provide the concrete slab, the curbs and the walls that are used as part of the containment for the unloading areas with an impermeable surface coating that:
  - a. is compatible with the waste, or any other liquid, stored in the containment system; and

- b. will prevent migration of the waste into the concrete of the slab or wall.
- c. The Permittee shall install a compatible caulking or sealant at each existing joint in the secondary containment system of the unloading areas to make the joint liquid tight. These joints include but are not limited to, all construction joints within the slab, walls and curbs and joints between the slab and curb, between two curbs, between the slab or curb and wall and joints between two walls. The caulking or sealant shall be compatible with the stored waste, or any other liquid, stored in the same containment system with the hazardous waste.

This condition does not apply to the Bulk Solids Storage Pad.

- d. Clean Harbors shall perform a complete inspection of the surface coating yearly in the unloading areas and perform annual maintenance to insure the integrity of the coating.

#### F. Contingency Plan

- 1. The Agency Field Office (Maywood) shall be notified within 24 hours of implementing the contingency plan. The contingency plan must be implemented whenever there is a fire, explosion or spill which involves hazardous waste or which occurs in areas where hazardous waste is treated or stored. This includes spills within the containment system. A spill is any release of material outside the permitted unit, into or outside of the containment system. A spill shall not include controlled accumulation of hazardous waste in small containment devices (e.g., bucket, drip pan but does not include sumps, or the primary secondary containment) used to collect and control the release of waste during routine processing or maintenance activities such as draining hoses or disassembling and repairing a pump.
- 2. The Permittee shall contact the local emergency response entities immediately after implementation of the contingency plan unless the spill is less than quantity specified in the air modeling at 100 meters and it is immediately contained and cleaned up.
  - a. The entities which must be notified include:
    - 1. Chicago Police Department; and
    - 2. Chicago Fire Department.

2. The type of wastes involved in the emergency and the approximate quantity involved;
  3. An initial assessment of the conditions at the site; and whether outside help is needed to properly respond to the situation.
- c. If the Permittee is able to properly respond to the emergency without any aid from the entities identified in Condition 2.a above, the Permittee shall notify each of these entities that the emergency situation no longer exists once all required emergency response and cleanup activities have been completed.

~~d. Based on the following chemicals being handled by this facility:~~

3. Within 60 days of the effective date of this permit, the Permittee shall demonstrate to the Agency that the following information has been provided to the local fire department, the local police department and all other agencies identified in 35 IAC 724.153(b) (Note: ~~that~~ this information must be provided to these entities to ensure the requirements of 35 IAC 724.137 are met):
- Ill. Admin. Code*
- a. A list of all hazardous wastes to be managed at the facility (generic name) including the USEPA hazardous waste number;
  - b. A scaled drawing showing the location of all hazardous waste management units at the facility and all other areas where waste is managed at the facility (such as loading/unloading areas, etc.). This scaled drawing must also identify the entrances to the facility, roads within the facility and possible evacuation routes;
  - c. A description of the types of waste managed at each hazardous waste management unit at the facility;

- f. The following information regarding the properties of the wastes managed at the facility:

Name  
USEPA Hazardous Waste Number  
CAS Number  
IDLH  
TLVs (TLV-TWA, TLV-STEL, TLV-C)  
Boiling Point (if applicable)  
Vapor pressure at two temperatures  
NFPA Designation (flammable or combustible)  
Material Safety Data Sheets  
Other appropriate characteristics (such as reactive class, etc.)  
USDOT classification

- g. The results of the air modeling conducted by the facility.

4. Within sixty (60) days of the effective date of this permit, the Permittee shall provide documentation to the Agency that the agreements and arrangements identified below have been made. Where necessary, documentation must be provided that any agency identified in 35 Ill. Adm. Code 724.153(b) declined to enter an agreement or arrangement. The specific arrangements and agreements which must be made include:
- a. Arrangements to familiarize the local police department, local fire departments and other local emergency response teams with the layout of the facility, properties of hazardous wastes handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility and possible evacuation routes.
  - b. Agreements designating primary emergency authority to a specific police department and a specific fire department, where more than one police department and fire department might respond to an emergency. Agreements should also be made with the other surrounding police and fire departments to provide support to the primary emergency authorities;
  - c. Agreements with state emergency response teams, emergency response contractors and equipment suppliers;
  - d. Arrangements to familiarize local hospitals with the properties of the hazardous wastes handled at the facility and the types of injuries or illnesses which could result from fires, explosions or releases at the facility.

- e. Arrangements to identify a single local emergency response agency as the primary agency which will coordinate activities required by these agencies during an emergency at the facility.

The facility shall also attempt to develop emergency plans and coordination agreements with the state and local emergency entities identified above. The detail of the arrangements made with the local and state emergency entities may be dependent upon the types of wastes handled at the facility and the potential need for the services of the various entities.

- 5. The Permittee shall review all components of the contingency plan with the local emergency response entities within 12 months of the effective date of the permit and each year afterwards. Copies of the meeting notes and list of attendees shall be placed in the facility's operating record and be available to the Agency for review upon oral or written request.

#### G. Miscellaneous

- 1. All used oil which contains greater than 1,000 ppm halogens which cannot be adequately rebuffed are hazardous wastes and must be handled accordingly (i.e., they cannot be processed into an on-specification or off-specification used oil fuel).
- 2. Clean Harbors shall implement the suggestions by Gage Babcock & Associates for fire control within one year of the effective date of this permit for existing areas and the proposed areas upon development.
- 3. Wastes carrying the hazardous waste code classification of F020, F021, F022, F023, F026 and F027 shall not be stored in the proposed Bulk Solids Storage Area.
- 4. All wastes to be stored in the Bulk Solids Storage Area must not exhibit the characteristic of corrosivity on a 10% solution of the solid.
- 5. All wastes dewatered by portable pumps must be analyzed by the paint filter test. Wastes which fail will still retain the characteristic of corrosivity.
- 6. Water reactive solids may not be stored in the Bulk Solids Storage Area.



7. Wastes for fuel blending, as received, shall have a minimum BTU value of 6,000 BTU/lb and a maximum halogen content of 10%. The operating record shall include an inventory record of the wastes in storage (for fuel blending) cross-referenced to an analysis of the waste as received or an analysis of the blended fuel for BTU value and total halogens.
8. Lab packing operations (sorting, pour off, transfer but not storage) are only approved for areas where there is a functional fume hood for the operation.

#### H. Listed Waste Treatment

##### Stabilization

1. The stabilization facility cannot accept wastes containing over 2% (by weight) of mercury.
2. The stabilization facility cannot stabilize wastes containing parameters above land ban restrictions whose BDAT as identified in the Federal Register is not based on stabilization (i.e., cyanide, organics, etc.). Attachment A identifies acceptable codes of wastes which may be stabilized that have hazardous constituents above their maximum specified LDR limit.
3. Workers inside Process Building No. 3 must wear respirators which are designed to remove particulates (HEPA) and organic compounds from the air they breathe. In addition, the workers must be equipped as necessary, to meet the applicable requirements of OSHA.
4. The following items shall be documented in the operating record for the Waste Stabilization Facility regarding each load of waste received for stabilization/solidification:
  - a. Time and date that each waste load is received;
  - b. Permit number and manifest number associated with the waste;
  - c. Waste name, generator name and location (including the USEPA and IEPA identification number);
  - d. Volume of waste received;

- d. Volume of waste received;
  - e. Identification of the receiving bay where the incoming waste is placed;
  - f. Information pertaining to the actual treatment process, including:
    - i. The time and date when each waste load is treated at the mixing unit;
    - ii. The amount of material added to the waste in the mixing unit (mass per mass or mass per volume basis);
    - iii. Length of time treated waste "cures" before being subjected to the paint filter test, the penetrometer test and any additional tests;
    - iv. Results of the paint filter test; the penetrometer test, if applicable; and
    - v. All analytical results obtained in evaluating the stabilization achieved during treatment of the waste as required in.
  - g. The results of the initial treatability study/development of the treatment recipe.
5. The areas where waste is handled within the stabilization building (unloading area, mixing area, loading area, areas trafficked in transporting waste to and from the mixing unit (i.e., mixing box or mixing equipment) shall be inspected each time after a mixing unit is either filled or emptied. Any waste residue observed on the floor shall be cleaned up immediately. Any spills which occur during the treatment process or during the movement of waste within the facility shall be responded to immediately in accordance with the contingency plan. Documentation of each inspection and spill incident shall be placed in the operating record.
6. The areas heavily trafficked during transport of waste to and from the mixing unit shall be cleaned at the end of each eight hour operating shift, in accordance with the following procedures:
- a. Operation of the stabilization facility shall cease during the required cleanup activities;

- b. The areas of concern shall be cleaned through use of a pressure washer or steam cleaner. Wastewater generated during this activity shall be directed to the collection sump.
  - c. All washwater which collects in the sump shall be removed prior to resuming operation; and
  - d. Documentation of the cleaning activities shall be placed in the operating record of this facility.
7. The mixing unit (i.e., the waste feed hoppers, the mixers, and all associated waste transfer appurtenances) or mixing boxes shall be completely emptied (i.e., as much waste as possible shall be removed) prior to placing a waste in the unit which is subject to different land disposal restrictions than the waste that was previously in the unit. The mixing unit mixing box will be considered empty when it contains no more than 3% (by weight) of the waste that was initially in the unit. Documentation of this cleaning effort shall be placed in the operating record for the facility.
8. Treated waste subject to the land disposal restrictions of 40 CFR 268 and/or 35 Ill. Adm. Code 728 shall be managed in accordance with the following procedures:
- a. The treated waste shall not be sent for landfill disposal until it has been demonstrated that the applicable restrictions are met.
  - b. Until such time as the analyses necessary to demonstrate compliance with these restrictions are completed, the treated waste shall be stored. Wastes subject to different land disposal restrictions shall be segregated from each other prior to, during and after treatment until it is demonstrated that the wastes have each passed the treatment standards applicable to that waste.
  - c. The container, tank or waste pile may contain waste generated over more than one day of operation.
  - d. Once the samples required for the demonstration have been obtained, no new wastes may be added to the container(s) and a new container(s) for the waste of concern must be started.
  - e. The demonstration shall be carried out in accordance with the steps listed below:
    - i. To comply with the initial demonstration of documenting the facility's ability to treat a particular waste code.

A representative sample shall be collected from the first twenty (20) roll-off boxes and an analyses performed to demonstrate compliance with parameters specific to the Land Disposal Restrictions (LDR) for the pertinent waste code. The results of the sampling (before and after) shall be submitted to this Agency within 30 days after the completion of the analysis of the samples.

- ii. Once a facility has demonstrated its ability to meet the LDR standards for a particular code, the Permittee may reduce the sampling frequency to the first and last batches, respectively, in any group of containers for which compliance is to be determined.
- iii. If the treatment standard for any of the constituents is exceeded:
  - 1. Treated waste which fails to meet the requirements shall receive additional treatment (this may consist of additional curing time and/or reintroduction into the treatment facility for further stabilization). Waste which receive additional treatment may only be disposed in the landfill after it has been demonstrated that the residue meets the proper treatment standards.

- 9. All wastes which failed the gate control paint filter test shall be tested by the penetrometer test (after stabilization). No wastes which fails to possess a load bearing capacity of at least 2.0 tons per square foot (TSF) may be disposed.

#### Chemical Oxidation

- 1. The following waste codes may be processed in the listed waste treatment building utilizing the above method:

D018	Wastes containing less than 35 ppm benzene
D028	Wastes containing less than 10 ppm 1,2-Dichloroethane
D029	Wastes containing less than 100 ppm 1,1-Dichloroethylene
D030	Wastes containing less than 5 ppm 2,4-Dinitrotoluene
D032	Wastes containing less than 10 ppm Hexachlorobenzene
D033	Wastes containing less than 10 ppm Hexachlorobutadiene
D034	Wastes containing less than 5 ppm Hexachloroethane
D035	Wastes containing less than 400 ppm Methyl-Ethyl-Ketone
D039	Wastes containing less than 5 ppm Tetrachlorethylene
D040	Wastes containing less than 10 ppm Trichloroethylene

**Carbon Adsorption.**

1. All wastes to be treated using carbon adsorption must be evaluated through a treatability study to determine if the carbon adsorption is effective in removing the organic constituents below MWRDGC's sewer discharge or the applicable LDR Standard. Testing shall be conducted after actual treatment to verify treatment. Either each batch shall be tested if discharged or each waste from a specific generator if sent off-site.

0316000051  
RCRA Log No. 16  
Page E-1 of E-2

**ATTACHMENT E**  
**CLOSURE CERTIFICATION FORM**  
**NO. 0316000051**

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

Closure Certification Statement

The hazardous waste management units at the facility described in this document have been closed in accordance with the specifications in the Agency approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

\_\_\_\_\_  
USEPA ID Number

\_\_\_\_\_  
Facility Name

\_\_\_\_\_  
Signature of Owner/Operator

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Signature of Registered P.E.

\_\_\_\_\_  
Name of Registered P.E. and Illinois  
Registration Number

\_\_\_\_\_  
Date

**ATTACHMENT F**  
**REQUIRED SCOPE OF WORK**  
**FOR A RCRA FACILITY INVESTIGATION**



**Scope of Work for a RCRA Facility Investigation  
Clean Harbors of Chicago Facility**

This Scope of Work relates specifically to the RCRA Facility Investigation (RFI) of the solid waste management units ("SWMU") identified in Section IV of this RCRA Permit, which the Permittee is required to perform under the terms of this RCRA permit. In this Scope of Work, "Agency's DLPC" refers to the Illinois Environmental Protection Agency's Division of Land Pollution Control, "Permittee" refers to Clean Harbors of Chicago.

**I. PURPOSE**

The purpose of the RFI is to determine the nature and extent of releases of hazardous waste or constituents, if any, from SWMUs located at the facility and to gather data necessary to prepare a Corrective Action Plan (CAP). Specifically, the information gathered during the RFI will be used to help determine the need, scope and design of a corrective action program.

**II. SCOPE OF WORK**

The Scope of Work for the RFI is divided into three phases -- Phases I, II and III.

1. The purpose of Phase I is to provide information on the characteristics and integrity of each unit and conduct field activities, as necessary, to determine if a SWMU has released, is currently releasing, or has the potential to release hazardous waste or constituents to the soil or air which may be impacted for that SWMU.
2. Phase II of the RFI will be required if the Agency's DLPC determines from the data obtained in Phase I that, for any SWMU, (1) a release has occurred to the soil or air, (2) a release is occurring to the soil or air, or (3) the results are inconclusive. The purpose of Phase II is to define the extent of releases to the soil or air from these SWMUs.
3. Phase III will be required if the Agency's DLPC determines from the data obtained in Phase II that hazardous wastes or constituents

may have migrated to the groundwater. The purpose of Phase III is to define the extent of releases both on-site and off-site to the ground water from SWMUs identified in Phase I or II to have potentially released hazardous waste or constituents to the groundwater.

Each phase of the investigation is divided into three Subparts. The first Subpart deals with the development of a RFI Workplan by the Permittee. The second Subpart is the implementation of the RFI. The final Subpart covers the submission of reports of activities and results of the RFI.

### III. RFI WORKPLANS

The Permittee shall prepare a detailed workplan for each phase of the RFI which contains detailed background information related to the facility and the SWMUs listed in Condition B.1 of Section IV of the permit and which describes procedures for each phase of the RFI in accordance with the schedule in Section IV of the permit. The RFI Workplan must, at a minimum, contain the information identified in III.A-III.H below. The information in the workplan must be presented in a manner which is similar to the format set forth in these sections. Information provided in each Phase of the RFI may be incorporated into the workplan for the subsequent Phase by reference. Information already submitted in the Part B permit application may also be incorporated by reference into the workplans when appropriate.

#### A. GENERAL FACILITY INFORMATION

The following information must be provided in the Phase I RFI Workplan regarding the facility overall:

1. A description of the facility, including the nature of its business, both past and present. This description should identify (1) the size and location of the facility, (2) the raw materials used and products manufactured at the facility and (3) the Standard Industrial Code which describes the type of activities carried out at the facility;
2. Identification of past and present owners;
3. A discussion of the facility's past and present operations, including all solid and hazardous waste generation, storage, treatment and disposal activities;

4. A brief discussion of each of the SWMUs identified in Condition B.1 of Section IV of this permit;
5. A description of all significant surface features (ponds, streams, depressions, etc.) and wells within 1,500 feet of the facility;
6. A description of all land usage within 1,500 feet of the facility, including all known SWMUs;
7. Identification of all human populations and environmental systems potentially susceptible to contaminant exposure from releases from the SWMUs within a distance of at least 1,500 feet of the facility;
8. A description of any interim corrective action measures which were or are being planned or undertaken at the facility;
9. Approximate dates or periods of past spills or releases, identification of material spilled, amount spilled, location, and a description of the response actions, including any inspection reports or technical reports generated as a result of the spill or release.
10. A current topographic map(s) showing a distance of at least 1,500 feet around the facility and other information described below, and at a scale of one inch equal to not more than 200 feet. Contours shall be shown on the map, with the contour interval being sufficient to clearly show the pattern of surface water flow. If such a map is not available, the workplan shall describe the method for generating the map for inclusion in the Phase I report. The map shall clearly show the following:
  - a. Map scale, North arrow, date, and location of facility with respect to Township, Range and Section;
  - b. Topography and surface drainage depicting all waterways, wetlands, 100-year floodplain, drainage patterns, and surface water areas;
  - c. Property lines, with the owners of all adjacent property clearly indicated;
  - d. Surrounding land use;

- e. Locations and boundaries of (1) all solid waste management units, both past and present, (2) spill areas and (3) other suspected areas of contamination;
- f. All injection and withdrawal wells, and
- g. All buildings, tanks, piles, utilities, paved areas, easements, rights-of-way, and other features including all known past and present product and waste underground tanks or piping.

The map(s) shall be of sufficient detail and accuracy to locate and report all current and future RFI work performed at the site. The base map(s) shall be submitted in the Phase I report and modified in subsequent reports and workplans as appropriate.

**B. NATURE AND EXTENT OF CONTAMINATION**

The Phase I Workplan must contain the following information, to the extent known, for each of SWMUs identified in Condition B.1 of Section IV of the permit:

- 1. Location of unit/area;
- 2. The horizontal and vertical boundaries of each unit/area;
- 3. Details regarding the construction, operation and structural integrity of each unit/area;
- 4. A description of all materials managed and/or disposed at each SWMU including, but not limited to, solid waste, hazardous wastes and constituents, hazardous substances to the extent they are known or suspected over the life of the facility including:
  - (a) Type of solid waste, hazardous waste or constituents or hazardous substances placed in the units, including source, hazardous classification, quantity and chemical composition;
  - (b) Physical and chemical characteristics, including physical form, physical description, general chemical class, cohesiveness of the waste;
- 5. Quantities of solid and hazardous wastes managed by the unit;

6. The history of the utilization of each SWMU and the surrounding areas, including the period of operation and age of the unit;
7. Methods used to close the unit, if applicable;
8. All available data and qualitative information on the level of contamination present at the SWMU;
9. A description of the existing degree and extent of contamination at each unit area.
10. Identification of additional information which must be gathered regarding 1 thru 9 above;

C. ADMINISTRATIVE OUTLINE

The Permittee shall submit as part of each Phase Workplan a general outline defining the RFI objectives, technical approach, and scheduling of tasks during that phase of the RFI. The Permittee shall prepare a Project Management Plan as part of each Phase Workplan which will include a discussion of the technical approach, schedules, budget, and personnel. The Project Management Plan must also include a description of the qualifications of personnel performing or directing the RFI, and a description of any contractor personnel qualifications. This plan shall also document the overall management approach to the current Phase of the RFI.

D. SITE-SPECIFIC SAMPLING PLANS

The Permittee shall prepare detailed site-specific sampling plans for each phase of the RFI which address all field activities needed to obtain site-specific data. The plans must contain: a statement of sampling objectives, specifications of equipment, analyses of interest, sample types, sample locations and schedules for sampling. Wherever appropriate, Test Methods for Evaluating Solid Wastes, Third Edition, (SW-846), including Final Update I, sampling, analysis, and statistical methods shall be utilized. The plans must address all levels of the investigations, as well as types of investigations conducted on specific environmental media (i.e., soil, air, surface water, groundwater). The plans must describe in detail how each phase of the RFI will be implemented.

1. Phase I Sampling and Analysis Plan

The Phase I Sampling and Analysis Plan must describe methods to determine whether any of the SWMUs to be investigated have released or are currently releasing hazardous waste or constituents, hazardous substances, agrichemical or pesticide into the environment. This Phase I Sampling Plan shall be submitted as part of the RFI Phase I Workplan. The workplan must contain procedures for a:

a. Soils Investigation

The Phase I Workplan must provide for a determination of the presence or absence of releases of hazardous waste and constituents, hazardous substances, agrichemicals or pesticides into the soil around and under each SWMU which must be investigated, based upon the information present in the Phase I Work Plan. To meet this requirement, the workplan must identify:

- (1) The procedures which will be used to describe and characterize the soils in and around the subject SWMU(s) down to the water table, including, but not limited to, the following:
  - (a) Unified Soil Classification;
  - (b) Soil profile; and
  - (c) Elevation of water table;
- (2) The parameters and hazardous constituents to be used to establish the presence or absence of contamination. These must include, but are not limited to, specific hazardous constituents of wastes known or suspected to have been managed by the SWMU(s) as identified and determined by the unit characterization information presented in the work plan.
- (3) The basis for selecting the parameters and constituents in (3) above.
- (4) The methodology for choosing sampling locations, depths, and numbers of samples.

- (5) Sampling procedures for each parameter or constituent to be analyzed. All soil samples taken must be handled in accordance with 40 CFR 261, Appendix III and the Agency's DLPC soil volatile sampling procedure if volatiles are to be analyzed. All other environmental media samples must be collected and handled in accordance with USEPA approved and standardized methods for evaluation of solid wastes.
- (6) Analytical methods to be used in the analysis of the samples. If any of these methods is not consistent with those specified in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (U.S. EPA SW-846), a complete description of the methods to be used and the justification for not using the appropriate SW-846 methods must be provided.
- (7) Procedures and criteria for evaluating analytical results to establish the presence or absence of any contamination.

b. Air Investigation

- (a) The Phase I Workplan must provide for an investigation to characterize the particulate and gaseous contaminants released into the atmosphere from the Waste Liquid Burning Process and the Waste Solvent Storage Area. A determination of "no impact" must be justified and documented to the satisfaction of the Agency's DLPC. This investigation shall provide the following information:
  - (1) A description of the horizontal and vertical direction and velocity of contaminant movement;
  - (2) The rate and amount of release; and
  - (3) The chemical and physical composition of the contaminants release, including horizontal and vertical concentration profiles.

The Permittee shall document the procedures used in making the above determinations.

(b) The Phase I Workplan must provide for characterizing the climate in the vicinity of the facility. Such information shall include, but not be limited to:

(1) A description of the following parameters:

- (a) Annual and monthly rainfall averages;
- (b) Monthly temperature averages and extremes;
- (c) Wind speed and directions;
- (d) Relative humidity and dew point;
- (e) Atmospheric pressure;
- (f) Evaporation data;
- (g) Development and inversions; and
- (h) Climate extremes that have been known to occur in the vicinity of the facility, and the frequency of occurrence.

(2) A description of topographic and manmade features which affect air flow and emission patterns, including:

- (a) Ridges, hills or mountain areas;
- (b) Canyons or valleys;
- (c) Surface water bodies;
- (d) Wind breaks and forests;
- (e) Buildings; and
- (f) Other man-made features.

## 2. Phase II Sampling and Analysis Plan

The Phase II Sampling and Analysis plan, if necessary, must describe procedures to determine the nature and extent of hazardous waste and/or hazardous constituents released to the soil. This workplan shall address and/or include, at a minimum:



- (1) A description of what is known about the horizontal and vertical extent of contamination;
- (2) A description of relevant contaminant and environmental chemical properties within the affected source area and plume, including solubility, specification absorption, leachability, exchange capacity biodegradability, hydrolysis, photolysis, oxidation and other factors that might affect contaminant migration and transformation (if known);
- (3) Specific contaminant concentrations, if known;
- (4) The horizontal and vertical velocity and direction of contaminant movement (if known);
- (5) An extrapolation of future contaminant movement (if known); and
- (6) The methods and criteria to be used to define the boundaries of the plume(s) of contamination;
- (7) The parameters and constituents to be used to establish the presence or absence of a plume of contamination. This must include, but need not be limited to, specific hazardous constituents of wastes known or suspected to have been placed in the SWMUs;
- (8) The basis for selecting the parameters and constituents in 7 above;
- (9) The methodology for choosing sampling locations depths, and numbers of samples;
- (10) Sampling procedures for each parameter or constituent to be analyzed;
- (11) Analytical methods to be used in the analysis of the samples. If any of these methods are not identical to those specified in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, (US EPA SW-846), a complete description of the methods to be used and the justification for not using the SW-846 methods shall be provided; and

(12) Procedures and criteria for evaluating analytical results to establish the presence or absence of any plume of contamination.

3. Potential Receptors

If (1) a release to air or groundwater is detected, or (2) the Permittee desires to establish site-specific soil cleanup objectives, then the subsequent RFI Phase Report must provide data describing the human populations and environmental systems within a radius of 1,500 feet of the facility boundary or SWMU, whichever provides the greatest distance that may be affected by releases from SWMUs, must be collected and submitted to the Agency. The following characteristics shall be identified.

a. Local uses and possible future uses of groundwater:

- (1) type of use (e.g. municipal or residential drinking water source, industrial, etc.); and
- (2) Location of groundwater users, including wells and discharge areas.

b. Local uses and possible future uses of surface waters draining the facility:

- (1) Domestic and municipal;
- (2) Recreational;
- (3) Agricultural;
- (4) Industrial; and
- (5) Environmental.

c. Human use of, or access to, the facility and adjacent lands, including, but not limited to:

- (1) Recreation;
- (2) Agriculture;
- (3) Residential;
- (4) Commercial;

- (5) Zoning; and
- (6) Location between population locations and prevailing wind direction.
- d. A description of the biota in surface water bodies on, adjacent to, or affected by the facility.
- e. A description of ecology of, and adjacent to the facility.
- f. A demographic profile of the people who use or have access to the facility and adjacent land, including, but not limited to: age, sex, and sensitive subgroups.
- g. A description of any endangered or threatened species near the facility.

4. Phase III - Hydrogeologic and Hydrologic Investigation

The potential for releases to groundwater from a given SWMU must be investigated as part of Phase III of the RFI if the Agency's DLPC determines from the data obtained during the RFI Phase II investigation that releases to soil from a given SWMU may have migrated to the groundwater below the site, or the data is inconclusive. The RFI Phase III hydrogeologic and geologic investigation plan must provide descriptions of groundwater monitoring systems which will provide adequate data on the detection, nature, extent and rate, and concentration of any releases to groundwater or surface water.

Groundwater monitoring will not be required for a SWMU during the RFI Phase III investigation, if the Permittee can demonstrate, based upon the data obtained from the soils investigation under the RFI Phase I environmental media investigation that no releases have occurred from the SWMU(s), or, based upon the data obtained from the rate and extent evaluation under the RFI Phase II investigation that contaminants from the subject SWMU(s) have not entered the groundwater. The Agency reserves the right to require a groundwater monitoring program for SWMUs based upon interim or final corrective measures chosen.

If releases of hazardous waste or constituents, hazardous substance, agrichemicals or pesticides, have entered the groundwater at a particular SWMU, the RFI Phase III Workplan

shall address a hydrological investigation and groundwater monitoring for a SWMU or group of SWMUs at the time the Agency notifies the Permittee that a RFI Phase III Workplan is required. This workplan must include:

Information, as it is available, regarding:

a. Information, as it is available, regarding:

- (1) The regional geologic and hydrogeologic characteristics in the vicinity of the facility, including stratigraphy, hydrogeologic flow and the areas of recharge and discharge;
- (2) Any topographic or geomorphic features that might influence the groundwater flow system;
- (3) The hydrogeologic properties of all of the hydrogeologic units found at the site down to the first bedrock aquitard, including: hydraulic conductivity and porosity, texture, uniformity and lithology; an interpretation of hydraulic interconnections between saturated zones; and zones of significant fracturing or channeling in the unconsolidated and consolidated deposits;
- (4) Using the facility map as a base, isopach and structural contour maps, and at least two (2) geologic cross sections showing the extent (depth, thickness, lateral extent) of all hydrogeologic units within the facility boundary, down to the first bedrock aquitard, identifying: all units in the unconsolidated and consolidated deposits; zones of higher permeability or lower permeability that might direct or restrict the flow of contaminants; perched aquifers; and the first saturated zone that may have a potential for migration of contaminants;
- (5) The water level or fluid pressure monitoring, including: water level contour maps and vertical gradient sections, well or piezometer hydrographs and interpretation of the flow system, interpretation of any changes in hydraulic gradients, and seasonal fluctuation; and

- (6) Any man-made influences that may affect the hydrogeology of the site, identifying local water supply and production wells and other man-made hydraulic structures within 1500 feet of the facility boundary.
- b. Procedures for obtaining information identified in III.D.4.a above which was not obtained during preparation of the workplan.
- c. Documentation that sampling and analysis of groundwater monitoring wells will be carried out in accordance with the approved Data Collection Quality Assurance Plan as required in III.F. below. The Plan shall provide information on the design and installation of all groundwater monitoring wells. The designs shall be in accordance with the latest version of the Technical Enforcement Guidance Document (TEGD), where appropriate, and the latest version of the Agency's DLPC design criteria. At a minimum:
  - (1) The groundwater monitoring wells must consist of monitoring wells installed in the uppermost aquifer and in each underlying aquifer (e.g., sand units) which are hydraulically interconnected;
  - (2) At least one background monitoring well in each aquifer shall be installed hydraulically upgradient (i.e., in the direction of increasing static head) from the limit of the SWMUs, except to the extent that SWMUs in close proximity can be investigated with the same background well system. The number, locations, and depths must be sufficient to yield groundwater samples that are: (a) representative of background quality in the uppermost aquifer and units hydraulically interconnected beneath the facility; and (b) not affected by SWMUs at the subject facility; and
  - (3) Monitoring wells in each appropriate aquifer shall be installed hydraulically downgradient (i.e., in the direction of decreasing static head) at the limit of the SWMU or at the limit of each group of proximate SWMUs. The number, locations and depths of the groundwater monitoring wells must ensure that they allow for detection of releases of hazardous waste or hazardous constituents from the SWMU(s).

d. A sampling plan which specifies:

- (1) The parameters and constituents to be used to establish the presence or absence of a plume of contamination. These must include, but need not be limited to, specific hazardous constituents of wastes determined to have been placed in or released from the SWMUs (including any possible degradation products);
- (2) The basis for selecting the parameters and constituents in (1) above;
- (3) The methodology for investigating the hydrostratigraphic units at site, and the locations, depths, and concentration specifications for each monitoring well;
- (4) Sampling procedures for each parameter or constituent to be analyzed, including sampling frequency;
- (5) Analytical methods to be used in the analysis of the samples. If any of these methods is not consistent with those specified in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (U.S. EPA SW-846), a complete description of the methods to be used and the justification for not using the appropriate SW-846 methods will be provided; and
- (6) Procedures and criteria for evaluating analytical results to establish the presence or absence of any plume of contamination.

If the Agency's DLPC determines from the data obtained during the Phase III investigation that releases of hazardous waste or constituents have occurred to the groundwater or that the data are inconclusive, the Permittee must submit a Groundwater Monitoring Plan to determine the vertical and horizontal distribution of the contaminants identified and to predict the long-term disposition of any contaminants. This groundwater monitoring program must include proposals for establishing the locations, depths, and construction specifications for additional monitoring wells that may be necessary

to delineate the extent of any plume. The methodology of the investigation, the sampling procedures, analytical methods, and procedures for evaluating analytical results to establish the extent of the plume shall be the same as above unless specifically identified in the Phase III workplan. The Groundwater Monitoring Plan must also specify the criteria which will be used to determine the limits of the plume.

**E. DATA COLLECTION QUALITY ASSURANCE**

The Permittee shall prepare a plan to document all monitoring procedures, sampling, field measurements, and sample analysis performed during the investigation so as to ensure that all information, data and resulting decisions are technically sound, statistically valid, and properly documented. This shall be submitted with each Phase Workplan.

Quality Assurance. Sampling methods and equipment, as well as laboratory analytical methods, shall follow guidance in U.S. EPA's SW-846, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (see 40 CFR 260.11) if appropriate. All field sampling methods not included in SW-846 must be approved by the Agency's DLPC before they are used in the RFI. This includes methods such as drilling, borings, etc. When applicable, standard procedures, as defined by U.S. EPA, IEPA or ASTM, should be followed. All soil samples which are to be taken must be handled in accordance with 40 CFR, Part 261, Appendix III and the Agency's soil volatile sampling procedures if volatile sampling is required. The analytical methods which will be used must be specified and must be approved by the Agency before they are implemented.

**F. DATA MANAGEMENT PLAN**

The Permittee shall develop and initiate a Data Management Plan to document and track investigation data and results. This Plan shall identify and set-up data documentation materials and procedures, project file requirements, and project-related progress reporting procedures and documents. The Plan shall also provide the format to be used to present the raw data and conclusions of the investigation(s). This plan shall be submitted with each Phase Workplan.

**G. IMPLEMENTATION OF INTERIM MEASURES**

At any time during the RFI the Permittee may initiate interim measures for the purpose of preventing continuing releases and/or mitigating the results of releases and/or mitigating the migration of hazardous wastes or hazardous constituents. It may not be necessary to conduct all phases of the RFI investigation if the Agency's DLPC and the Permittee agree that a problem can be corrected, or a release cleaned up, without additional study and/or without a formal, corrective measure study ("CMS").

The Permittee shall submit information on any past or ongoing interim measures which have been or are to be undertaken to abate threats to human health and the environment to the Agency's DLPC for approval. This information shall include, at a minimum:

1. Objectives of the interim measures: how the measure is mitigating a potential threat to human health and the environment and/or is consistent with and integrated into any long term solution at the facility;
2. Design, construction, and maintenance requirements;
3. Schedules for design and construction; and
4. Schedules for progress reports.

If the Agency determines that a release cannot be addressed without additional study and/or a formal CMS then the Agency's DLPC will notify the Permittee that these must be performed. Any proposal made under this provision or any other activity resulting from such proposal, including the invocation of dispute resolution, shall not affect the schedule for implementation of the RFI or of any other portion of the permit.

If the Agency determines that interim measures are necessary to protect human health or the environment, the Permittee will be notified by way of a permit modification.

**H. HEALTH AND SAFETY PLAN**

Under the provisions of 29 CFR 1910 (54 Fed. Reg. 9295 (1989), cleanup operations must meet the applicable requirements of OSHA's



Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the site must have at least an additional eight hours of specialized training on managing hazardous waste operations. These requirements must be met during each phase of the RFI.

#### IV. IMPLEMENTATION OF RFI

The Permittee shall conduct those investigations necessary to characterize the site, and to determine the nature, rate and extent of migration, and concentrations of hazardous waste or constituents, if any, released from the SWMU's into the surface water and sediments, groundwater, air, and soil. The investigations must be of adequate technical content to support the development and evaluation of a corrective action program, if one is deemed necessary by the Agency.

The investigation activities shall follow the plans and procedures set forth in the Workplan(s) and the RFI schedule. Any actual or anticipated deviations from the Workplan(s) or the RFI schedule shall be reported no later than the time of submission of the next quarterly report required by Section V subsequent to the determination of need or actual deviation from the Workplan.

#### V. SUBMISSION OF REPORTS AND RESULTS OF RFI ACTIVITIES

The Permittee must prepare and submit quarterly progress reports and a final report on the activities and results of each Phase of the RFI activities as appropriate. The progress reports shall contain at a minimum:

1. An estimate of the percentage of the investigation completed;
2. Summary of activities completed during the reporting period;
3. Summaries of all actual or proposed changes to the Workplan or its implementation;

4. Summaries of all actual or potential problems encountered during the reporting period;
5. Proposal for correcting any problems;
6. Projected work for the next reporting period; and
7. Other information or data as requested in writing by the Agency's DLPC.

The workplans and reports which must be submitted to the Agency for review and approval in accordance with the schedule set forth in the following table:

<u>Facility Action</u>	<u>Due Date</u>
Submission of RFI Phase I Workplan	Within 120 days after effective date of the permit
Completion of RFI Phase I investigation and submission of Phase I Report and Summary	To be specified in the Phase I Workplan
Submission of RFI Phase II Workplan	Within 90 days after notification of the need of Phase II by Agency's DLPC
Completion of RFI Phase II investigation and submission of Phase II Report and Summary	To be specified in the Phase II workplan
Submission of RFI Phase III Workplan	Within 90 days after notification of the need for Phase III
Completion of RFI Phase III investigation and submission of Phase III Report and Summary	To be specified in the Phase III Workplan
Periodic Progress Reports	To be specified in workplans
Submission of Interim Measures Plan	Within 45 days from the date interim measures are determined to be necessary

RFI IMPLEMENTATION SCHEDULE

<u>Facility Action</u>	<u>Due Date</u>
Submission of RFI Phase I Workplan	Within 90 days after effective date of the permit.
Completion of RFI Phase I investigation and submission of Phase I Report and Summary	Within timeframes established by the Agency following review of the RFI Phase I Workplan.
Submission of RFI Phase II Workplan	Within 60 days after notification of the need of Phase II by Agency's DLPC.
Completion of RFI Phase II investigation and submission of Phase II Report and Summary	To be negotiated with the Agency's DLPC during review of Phase II workplan.
Quarterly Progress Reports	Must be received by <u>Agency's DLPC no later than:</u>  April 15 July 15 October 15 January 15 of each year
Submission of Implementation of Interim Measures Report	Within 30 days from the date interim measures were determined by the Agency to be necessary.

**ATTACHMENT G**  
**APPROVED PERMIT SECTION IDENTIFICATION**

Title	Latest Revision Date
SECTION A -- RCRA PART A APPLICATION [EPA FORM 8700-23 (01-90)]	12/22/92
SECTION B -- FACILITY DESCRIPTION	
B-1 General Description .....	02/15/91
B-2 Topographic Map .....	02/15/91
B-3 Location Requirements .....	06/10/91
B-4 Traffic Information .....	06/10/91
B-5 Operating Record .....	02/05/91
SECTION C - WASTE CHARACTERISTICS	
C-1 Chemical and Physical Analysis .....	08/14/92
C-1(i) Primary Physical and Chemical Treatment .....	06/10/91

Title	Latest Revision Date
C-1(ii) Specialized Pretreatment Prior To Primary Treatment .....	12/23/92
C-1(iii) Storage and Treatment of Listed Hazardous Wastes .....	12/23/92
C-1(iv) Stabilization and/or Fixation Prior To Off-Site Disposal .....	12/23/92
C-1(v) Storage and Transfer of Hazardous Waste Using Tanks and Containers .....	02/14/92
C-1(vi) Storage and Blending of Hazardous Waste Fuels .....	02/14/92
C-1(vii) Compacting of Hazardous Waste .....	12/28/92
C-1(viii) Treatment of D002 Liquid/Solid Mixtures..	12/28/92
C-1a Containerized Waste .....	02/15/91
C-1b Waste in Tank Systems .....	02/15/91
C-1d Landfilled Waste .....	02/15/91
C-1e Wastes Incinerated and Used in Performance Tests .....	02/15/91
C-1f Wastes to be Land Treated .....	02/15/91
C-2 Waste Analysis Plan .....	02/15/91
C-2a Parameters and Rationale .....	06/10/91
C-2a(i) Waste Pre-qualification Procedures .....	06/10/91
C-2a(ii) Conformance Testing .....	06/10/91
C-2a(iii) Process Operation and Compatibility Testing .....	03/15/93

Title	Latest Revision Date
C-2b Test Methods .....	03/15/93
C-2c Sampling Methods .....	03/15/93
C-2d Frequency of Analysis .....	02/15/91
C-2e Additional Requirements for Wastes Generated Off-Site .....	02/15/91
C-2e(i) Bulk Transport Receiving Procedures .....	02/15/91
C-2e(ii) Container Receiving Procedures .....	02/15/91
C-2e(iii) Lab Packed Waste Receiving Procedures ...	02/15/91
C-2e(iv) General Waste Acceptance Criteria .....	02/15/91
C-2e(v) Nonconformance .....	03/15/93
C-2e(vi) Rejected Loads .....	02/14/92
C-2f Additional Requirements for Ignitable, Reactive or Incompatible Wastes .....	02/14/92
C-2g Waste Analysis Requirements for Land Disposal Restrictions (LDR) .....	02/15/91
C-3 Quality Assurance .....	02/15/91

#### SECTION D -- PROCESS INFORMATION

Introduction .....	
D-1 Containers .....	02/14/92
D-1(i) Overview of Drum Management Activities .....	02/14/92
A. Existing Container Storage Area .....	02/14/92
B. Proposed Outdoor Container Storage Area .....	02/14/92
C. Proposed Lab Pack Repack Area .....	02/14/92

Title	Latest Revision Date
D. Proposed Fuel Blending Operation .....	02/14/92
E. Proposed Drum Crushing & Compaction Area .....	02/14/92
F. Proposed Rail Car Transfer Operation .....	02/14/92
G. Mobile Waste Compactor .....	02/14/92
H. Proposed Treatment of D002 Liquid/Solid Mixtures .....	12/23/92
I. Proposed Non-Hazardous Waste Drum Storage/Consolidation Area .....	12/23/92
J. Proposed Aerosol Can Compactor .....	12/23/92
D-1(ii) Roll-off Container Management Activities .....	12/23/92
D-1a Containers With Free Liquids .....	
D-1a(1) Description of Containers .....	02/14/92
D-1a(2) Container Management Practices .....	02/14/92
D-1a(3) Secondary Containment System Design and Operation .....	02/14/92
D-1a(3)(a) Requirement for the Base or Liner to Contain Liquids ..	02/14/92
D-1a(3)(b) Containment System Drainage .....	02/15/91
D-1a(3)(c) Containment System Capacity .....	06/10/91
D-1a(3)(d) Control of Run-On .....	06/10/91
D-1a(3)(e) Removal of Liquids from Containment System .....	06/10/91
D-1b Containers Without Free Liquids .....	02/14/92
D-2 Tank Systems .....	
D-2a(1) Assessment of Existing Tank System's Integrity .....	02/15/91



Title	Latest Revision Date
D-2a(2) External Corrosion Protection .....	02/15/91
D-2b New Tank Systems .....	02/14/92
D-2c Dimensions and Capacity of Each Tank .....	02/14/92
D-2d Description of Feed Systems, Safety Cutoff, Bypass Systems and Pressure Controls .....	02/14/92
D-2e Diagram of Piping, Instrumentation and Process Flow for Each Tank System .....	02/14/92
D-2f Containment and Detection of Releases .....	02/14/92
D-2g Controls and Practices to Prevent Spills and Overflows .....	02/14/92
D-3 Waste Piles .....	02/14/92
D-4 Surface Impoundments .....	02/14/92
D-5 Trial Burns .....	02/14/92
D-6 Landfills .....	02/14/92
D-7 Land Treatment .....	02/14/92
SECTION E -- GROUNDWATER MONITORING	
E-1 Exemption from Groundwater Protection Requirements .....	02/15/91
SECTION F -- PROCEDURES TO PREVENT HAZARDS	
F-1 Security .....	
F-1a Security Procedures and Equipment .....	02/15/91
F-1a(1) 24-hour Surveillance System .....	02/15/91
F-1a(2) Barrier and Means to Control Entry .....	02/15/91

Title	Latest Revision Date
F-1a(1)(a) Barrier .....	02/14/92
F-1a(2)(b) Means to Control Entry .....	02/14/92
F-1a(3) Warning Signs .....	02/14/92
F-1b Waiver .....	02/14/92
F-2 Inspection Schedule .....	02/14/92
F-2a General Inspection Requirements .....	02/15/91
F-2b Specific Process Inspection Requirements .....	02/15/91
F-2b(1) Container Inspection .....	02/15/91
F-2b(2) Tank System Inspections .....	02/15/91
F-2b(2)(a) Tank Construction Materials .....	02/15/91
F-2b(2)(b) Tank Surrounding Area .....	02/15/91
F-2b(2)(c) Tank Overfilling Control Equipment .....	02/15/91
F-2b(2)(d) Tank Monitoring Data .....	06/10/91
F-2b(2)(e) Tank Level of Waste .....	06/10/91
F-2b(2)(f) Tank Condition Assessment for Unretrofitted Tanks .....	06/10/91
F-2b(3) Waste Pile Liner Inspection .....	06/10/91
F-2b(4) Waste Pile Inspection .....	06/10/91
F-2b(5) Surface Impoundment Inspection .....	06/10/91
F-2b(6) Incinerator Inspection .....	06/10/91
F-2b(7) Landfill Inspection .....	06/10/91
F-2b(8) Land Treatment Facility Inspection .....	06/10/91

Title	Latest Revision Date
F-3 Waiver or Documentation of Preparedness and Prevention Requirements .....	
F-3a Equipment Requirements .....	
F-3a(1) Internal Communications .....	02/15/91
F-3a(2) External Communications .....	02/15/91
F-3a(3) Emergency Equipment .....	02/15/91
F-3a(4) Water for Fire Control .....	03/15/93
F-3b Aisle Space Requirements .....	03/15/93
F-4 Preventive Procedures, Structures and Equipment .....	
F-4a Unloading Operations .....	03/15/93
F-4b Run-Off .....	03/15/93
F-4c Water Supplies .....	03/15/93
F-4d Equipment and Power Failure .....	06/10/91
F-4e Personnel Protection Equipment .....	06/10/91
F-5 Prevention of Reaction of Ignitable, Reactive or Incompatible Wastes .....	
F-5a Precautions to Prevent Ignition or or Reaction of Ignitable or Reactive Wastes .....	06/10/91
F-5b General Precautions for Handling Ignitable or Reactive Waste and Mixing of Incompatible Waste ...	02/14/92
F-5c Management of Ignitable or Reactive Wastes in Containers .....	02/14/92
F-5d Management of Ignitable or Reactive Wastes in Containers .....	02/14/92
F-5e Management of Ignitable or Reactive Wastes in Tank Systems .....	06/10/91

Title Latest Revision Date

F-5f Management of Incompatible Wastes  
in Tank Systems ..... 06/10/91

F-5g Management of Ignitable or Reactive Wastes  
Placed in Waste Piles ..... 02/15/91

F-5h Management of Incompatible Wastes Placed  
in Waste Piles ..... 02/15/91

F-5i Management of Ignitable or Reactive Wastes  
in Surface Impoundments ..... 02/15/91

F-5j Management of Incompatible Wastes Placed  
in Surface Impoundments ..... 02/15/91

F-5k Management of Ignitable or Reactive Wastes  
in Landfills ..... 02/15/91

F-5l Management of Incompatible Wastes Placed  
in Landfills ..... 02/15/91

F-5m Management of Ignitable or Reactive Wastes  
in Land Treatment Units ..... 02//15/91

F-5n Management of Incompatible Wastes Placed  
in Land Treatment Units ..... 02/15/91

SECTION G -- CONTINGENCY PLAN

G-1 General Information ..... 12/23/92

G-2 Emergency Coordinators ..... 02/14/92

G-3 Implementation ..... 02/14/92

G-4 Emergency Response Procedures .....

G-4a Notification to Federal, State, and  
Local Officials ..... 07/16/92

G-4b Identification of Hazardous Materials ..... 02/14/92

Title	Latest Revision Date
G-4c Assessment .....	02/14/92
G-4d Control Procedures .....	02/14/92
G-4d(1) Fire and/or Explosion .....	06/10/91
G-4d(2) Release to Air, Soil, or Surface Water .....	06/10/91
G-4d(3) Equipment Failure or Power Outages .....	02/14/92
G-4e Prevention of Recurrence or Spread of Fires, Explosions or Releases .....	02/14/92
G-4f Storage and Treatment of Released Material .....	02/14/92
G-4g Incompatible Waste .....	02/14/92
G-4h Post Emergency Equipment Maintenance .....	02/14/92
G-4i Container Spills and Leaks .....	02/14/92
G-4j Tank System Spills and Leaks .....	02/14/92
G-4j(1) Tank System Spills and Leakage .....	02/14/92
G-4j(2) Spills and Leaks from Tanks Containing Particular Chlorinated Dioxins, Dibenzofurans, and Phenols .....	02/14/92
G-4k Waste Pile Spills and Leakage .....	02/14/92
G-4l Surface Impoundment Spills and Leakage .....	02/14/92
G-4m Incinerator Spills and Leakage .....	02/14/92
G-4n Landfill Leakage .....	02/14/92
G-5 Emergency Equipment .....	02/14/92
G-6 Coordination Agreement Requirements .....	02/14/92
G-7 Evacuation Plan .....	02/14/92

Title	Latest Revision Date
G-8 Required Reports .....	02/14/92
SECTION H -- PERSONNEL TRAINING	
H-1 Outline of the Training Program .....	02/15/91
H-2 Implementation of Training Program .....	02/14/92
SECTION I -- CLOSURE AND POST-CLOSURE REQUIREMENTS	
I-1 Closure Plans .....	
I-1a Closure Performance Standard .....	06/10/91
I-1b Partial Closure Activities .....	06/10/91
I-1c Maximum Waste Inventory .....	06/10/91
I-1d Inventory Removal, Disposal, or Decontamination of Equipment, Structures, and Soils .....	06/10/91
I-1d(1) Closure of Containers .....	02/14/92
I-1d(2) Closure of Tank Systems .....	02/14/92
I-1d(3) Closure of Waste Piles .....	02/15/92
I-1d(4) Closure of Surface Impoundments .....	02/15/92
I-1d(5) Closure of Incinerators .....	02/15/91
I-1d(6) Closure of Land Treatment Facilities .....	02/15/91
I-1e Closure of Disposal Units .....	02/15/91
I-1f Schedule for Closure .....	02/15/91
I-1g Extensions of Closure Time .....	02/15/91

<b>Title</b>	<b>Latest Revision Date</b>
I-2 Post-Closure Plan .....	12/23/92
I-3 Notice in Deed and Certification .....	12/23/92
I-4 Closure Cost Estimate .....	12/23/92
I-5 Financial Assurance Mechanism for Closure .....	12/23/92
I-6 Post Closure Cost Estimate .....	12/23/92
I-7 Financial Assurance Mechanism for Post Closure .....	12/23/92
I-8 Liability Requirements .....	02/14/92
 <b>SECTION J -- OTHER FEDERAL LAWS</b>	
 <b>SECTION K -- PART B CERTIFICATION</b>	
K-1 Facility Certification .....	06/10/91
K-2 Engineering Certification .....	06/10/91
 <b>SECTION L -- CONTINUING RELEASES AT PERMITTED FACILITIES</b>	
L-1 Solid Waste Management Units .....	02/15/91
L-2 Releases .....	02/15/91
 <b>SECTION M -- RESEARCH, DEVELOPMENT, AND DEMONSTRATION PERMITS..</b>	
02/15/91	
 <b>SECTION N -- RCRA PART B CERTIFICATION.....</b>	
02/15/91	
 <b>SECTION O -- PRIOR CONDUCT CERTIFICATIONS</b>	
<b>AND FACILITY COMPLIANCE HISTORY.....</b>	
02/14/92	

List of Tables

Latest Revision Date

B-1. Map Requirements .....	02/15/91
C-1. Primary Treatment Using Chemical Precipitation, Coagulation, and Filtration .....	06/10/91
C-2. Pretreatment Using Neutralization .....	06/10/91
C-3. Pretreatment Using Chemical Oxidation .....	06/10/91
C-4. Pretreatment Using Chemical Reduction .....	06/10/91
C-5. Pretreatment by Other Methods .....	06/10/91
C-1a. Primary Treatment of Non-Hazardous Wastes Using Chemical Precipitation,, Coagulation, and Filtration .....	06/10/91
C-2a. Pretreatment of Non-Hazardous Wastes Using Neutralization .....	06/10/91
C-3a. Pretreatment of Non-Hazardous Wastes Using Chemical Oxidation .....	06/10/91
C-4a. Pretreatment of Non-Hazardous Wastes Using Chemical Reduction .....	06/10/91
C-5a. Pretreatment of Non-Hazardous Wastes By Other Methods .....	06/10/91
C-6. Pretreatment Using Oil Recovery .....	02/14/92
C-7. Listed Waste Treatment Process .....	12/23/92
C-8. Stabilization/Fixation Prior to Off-Site Disposal .....	02/14/92
C-9. Wastes for Storage and Transfer .....	02/14/92
C-10. Hazardous Waste Fuel Blending .....	03/15/93
C-11. Hazardous Characteristics of Wastes in Tank Systems .....	02/15/91



List of Tables

Latest Revision Date

C-12. Pre-acceptance and Conformance Testing Parameters .....	06/10/91
C-13. List of Supplemental Analyses .....	02/15/91
C-14. Analytical Methods .....	02/14/92
C-15. Sampling Methods .....	02/15/91
D-1. Summary of Existing or Proposed Container Management Units .....	02/14/92
D-2. Roll-off Container Management Areas .....	02/14/92
D-3. Physical Data for Existing Tanks .....	02/14/92
D-4. Operating Data for Existing Tanks .....	02/14/92
D-5. Physical Data for Proposed Tanks .....	03/15/93
D-6. Operating Data for Proposed Tanks .....	03/15/93
D-7. General Container Information .....	06/10/91
D-8. List of Reagents Used in Waste Treatment Processes .....	03/15/93
F-1. Inspection Schedule .....	Undated
F-2. General Facility Inspection -- Key Inspection Elements .....	02/15/92
F-3. Unit Specific Inspection -- Key Inspection Elements .....	02/15/91
F-4. Protective Equipment Guide .....	06/10/91
F-5. List Of Loading/Unloading Areas .....	03/15/91
G-1. List of Emergency Coordinators .....	07/16/92
G-2. List Of Coordination Agreements .....	07/16/92
G-3. Emergency Equipment Capabilities .....	02/15/91

List of Tables

Latest Revision Date

H-1. Training Program Outline .....	02/15/91
H-2. Training Topics .....	Undated
I-1. Capacity of Existing/Proposed Hazardous Waste Storage/Treatment Units .....	02/14/92
I-2. Closure Timeline .....	02/14/92

List of Appendices

Latest Revision Date

B-1. CHCI Drawing No. 4200, Issue A - Site Location and Surrounding Land Use .....	09/19/90
B-2. CHCI Drawing No. 4201, Issue C - Flood Plain and Site Plan .....	02/14/92
B-3. CHCI Drawing No. 4202, Issue C - Site Plan and Topography .....	02/14/92
B-4. CHCI Drawing No. 4203, Issue C - Site Plan Existing Facilities .....	02/14/92
B-5. CHCI Drawing No. 4204, Issue C - Site Plan Existing, Approved and Proposed Facilities & Operations .....	02/14/92
B-6. City of Chicago Zoning Ordinance, Page Nos. 227B, 228B, 234B, and 235B. Amended January 1, 1971 .....	Undated
B-7. Legal Description and Survey, Clean Harbors of Chicago, Inc., Drawing No. N-116032, prepared by National Survey Services, Inc. ....	Undated
B-8. CHCI Drawing No. 4223, Issue A - Wind Rose .....	09/19/90
B-9. Seismic Survey .....	01/24/91
B-10. Vicinity/Access Maps .....	Undated
B-11. Stony Island Avenue Construction Upgrade .....	05/89
B-12. Roadway Analysis .....	01/24/91
B-13. Stony Island Avenue Construction Details .....	Undated
C-1. Typical Waste Analyses .....	Undated
C-2. Laboratory Equipment .....	Undated
C-3. Treatability Study Data for Oxidation of Organic Compounds .....	Undated

List of Appendices

Latest Revision Date

C-4. Treatability of Organic Compounds Using Carbon Adsorption .....	Undated
C-5. Treatability Study Data for Stabilization/Fixation of Wastes .....	05/28/92
D-1. Process Descriptions for Existing and Proposed Activities at Clean Harbors of Chicago, Inc. ....	02/15/91
D-2. CHCI Drawing no. 4209, Sheet 1 of 2, Issue B - Existing Drum Storage Layout Building No. 2 .....	02/01/91
D-3. CHCI Drawing No. 4209, Sheet 2 of 2, Issue B - Existing Drum Storage Layout Building No. 2 .....	02/01/91
D-4. CHCI Drawing No. 4210, Issue B - Approved and Proposed Container Management area Layout and Details .....	02/14/92
D-5. Direct Design Limited Dwg. No. A1 - Containers Outdoor Storage Area Phase II - Foundation Detail .....	03/20/91
D-6. Direct Design Limited Dwg. No. A2 - Containers Outdoor Storage Area Phase I - Building Elevations .....	03/20/91
D-7. Direct Design Limited Dwg. No. A3 - Containers Outdoor Storage Area Phase I - Foundation/Floor Plan .....	03/19/91
D-8. Direct Design Limited Dwg. No. A4 - Containers Outdoor Storage Area Phase I - Foundation Details .....	03/20/91
D-9. Direct Design Limited Dwg. No. A5 - Containers Outdoor Storage Area Phase II - Foundation/Floor Plan .....	Rec'd 03/20/91
D10. Direct Design Limited Dwg. No. a6 - Containers Outdoor Storage Area Phase II - Building Elevations .....	Rec'd 03/20/91

List of Appendices

Latest Revision Date

D-11. CHCI Dwg. No. 4211, Issue C - Proposed Lab Pack Repack and Consolidation Area Details .....	02/14/92
D-12. CHCI Dwg. No. 4228, Issue B - Proposed Lab Pack Repack and Consolidation Area Elevations .....	02/14/92
D-13. CHCI Dwg. No. 4213, Sheet 2 of 3, Issue D - Equipment Layout - Proposed Fuels Blending Operation ..	12/18/92
D-14. CHCI Dwg. No. 4212, Issue B - Equipment Layout - Proposed Drum Crushing and Compacting Operation .....	02/14/92
D-15. CHCI Dwg. No. 4217, Issue B - Proposed Rail Car Containment Area Details .....	01/28/92
D-16. CHCI Dwg. No. 4218, Issue C - Bulk Solids and Medical Waste Storage Pad Details .....	05/16/91
D-17. Container Management Guidelines .....	Undated
D-18. Technical Specification for Coating Systems .....	Undated
D-19. Professional Engineer (PE) Certification of the Construction of the Existing Container Storage Area .....	01/08/91
D-20. CHCI Dwg. No. 4208, Issue A - Equipment Layout Existing Facilities .....	09/19/90
D-21. CHCI Dwg. No. 4205, Sheet 1 of 2, Issue B - Process Flow, Piping and Instrumentation Diagram - Existing Operations .....	09/19/90
D-22. CHCI Dwg. No. 4205, Sheet 2 of 2, Issue B - Process Flow, Piping and Instrumentation Diagram - Existing Operations .....	02/01/91
D-23. CHCI Dwg. No. 4206, Issue B - Piping and Instrumentation Diagram - Air Pollution Control Systems for Existing Operations .....	02/01/91

List of Appendices

Latest Revision Date

D-24. Construction Details for Existing Waste Receiving Tanks .....	09/02/80
D-25. Construction Details for Existing Bulk Storage Tanks .....	12/17/80
D-26. CHCI Dwg. No. 4214, Issue A - Existing Tank Farm Details .....	09/19/90
D-27. Chem Clear Dwg. No. M-0012-E: Design Details, Existing Chemical Treatment Unit .....	09/15/81
D-28. Chem Clear Dwg. No. M-0010-D: Design Details, Existing Clarifier Internal Assembly .....	03/26/81
D-29. Design Details, Existing Secondary Treatment Tanks, Sheet Nos. 1 through 4 .....	Undated
D-30. R.A. Morley Co. Dwg. No. 4033-D: Design Details, Existing Sludge Sump .....	09/02/80
D-31. Chem Clear Dwg. No. 4068-C: Design Details, Existing Sludge Conditioning Tank .....	02/03/88
D-32. Clean Harbors Dwg. No. 2916-M-01: Existing Reactor Vessel Details .....	Undated
D-33. Chem Clear Dwg. No. 4062-C: Modifications in Effluent Holding Tank .....	09/12/88
D-34. Chem Clear Dwg. No. 4034-D: Tank Details Oily Waste Water Pretreatment .....	11/02/83
D-35. Design Details, Waste Storage Tank .....	Undated
D-36. Professional Engineer (PE) Certification of Assessment of the Integrity of the Existing Tank Systems .....	06/10/91
D-37. CHCI Dwg. No. 4219, Issue C - Proposed Sludge Conditioning Tank Details .....	06/16/91
D-38. CHCI Dwg. No. 4231, Issue B - Reactor Vessel Installation and Secondary Containment Plan and Details .....	05/16/91

List of Appendices

Latest Revision Date

D-39. CHCI Dwg. No. 4213, Sheet 1 of 3, Issue C - Equipment Layout - Proposed Operations .....	02/14/92
D-39A. CHCI Dwg. No. 4213, Sheet 3 of 3, Issue A - Equipment Layout - Proposed Operations .....	02/14/92
D-40. CHCI Dwg. No. 4207, Sheet 1 of 3, Issue A - Process Flow, Piping and Instrumentation Diagram - Proposed Operations .....	02/01/91
D-41. CHCI Dwg. No. 4207, Sheet 2 of 3, Issue B - Process Flow, Piping and Instrumentation Diagram - Approved and Proposed Operations .....	02/01/91
D-42. CHCI Dwg. No. 4229, Issue B - Proposed Process Building No. 3 Plan, Sections, Details .....	02/14/92
D-43. CHCI Dwg. No. 4230, Issue B - Proposed Process Building No. 3 Elevations .....	02/14/92
D-44. CHCI Dwg. No. 4216, Issue D - Proposed Listed Wastes Storage/Transfer Farm Details .....	02/14/92
D-45. CHCI Dwg. No. 4207, Sheet 3 of 3, Issue D - Process Flow, Piping and Instrumentation Diagram - Proposed Fuels Blending Operations .....	12/18/92
D-46. CHCI Dwg. No. 4215, Issue D - Proposed Flammable Storage Tank Farm Details .....	02/14/92
D-47. Structural Design and Secondary Containment Calculations for Proposed Units .....	06/06/91
D-48. Subsurface Investigation Report, O'Brien & Associates, Inc., June 1991 .....	06/91
D-49. Professional Engineer (PE) Assessment and Certification of the Design of New Tank Storage System.....	06/03/91
D-49A. Professional Engineer (PE) Assessment and Certification of the Design of Pegasus Tank Processing System .....	06/03/91

List of Appendices

Latest Revision Date

D-50.	Pegasus Fuel Blending System Operations Manual .....	01/09/92
D-51.	CHCI Dwg. No. 4235, Issue B - Control Panel Face Layout Drum Processing .....	02/14/92
D-52.	CHCI Dwg. No. 4236, Issue B - Control Panel Face Layout Drum Processing .....	02/14/92
D-53.	CHCI Dwg. No. 4237, Issue B - Drum Processing System Schematic .....	12/18/92
D-54.	CHCI Dwg. No. 4238, Issue B - Enclosure Vacuum, Fire Prevention and Suppression .....	12/18/92
D-55.	CHCI Dwg. No. 4239, Issue B - Drum Movement Isometric .....	12/18/92
D-56.	CHCI Dwg. No. 4240, Issue B - Simplified Process Flow and Material Balance .....	12/18/92
D-57.	CHCI Dwg. No. 4241, Issue B - Waste Liquid Piping Schematic .....	12/18/92
D-58.	Sample Labels/Markings .....	02/14/92
D-59.	Professional Engineer (PE) Assessment and Certification of the Design of Proposed Container Storage Areas .....	12/11/92
D-60.	Manufacturer's Literature for Mobile Waste Compactor .....	Undated
D-61.	CHCI Dwg. No. 4234, Issue A - Proposed Truck Loading Dock & Truck Sampling Pad Details .....	02/14/92
D-62.	Clean Harbors of Chicago, Inc., Proposed Non-Hazardous Drum Storage & Bulking Area Layout, CHCI Dwg No. 4266 (Issue A) .....	10/13/92



List of Appendices

Latest Revision Date

D-63.	Clean Harbors of Chicago, Inc., Site Plan Proposed Non-Hazardous Drum Storage & Bulking Area, CHCI Dwg. No. 4266 (Issue A) .....	10/13/92
D-64.	Manufacturer's Literature, Aerosol Compaction System .....	Undated
D-65.	Minimum Tank Thickness Calculations .....	03/15/93
F-1.	Confined Space Entry Procedures .....	Undated
F-2.	Personal Protective Equipment Program .....	03/90
F-3.	Medical Waste Health/Safety Control Plan .....	10/90
F-4.	Equipment and Procedures for Transfer of Flammable Liquids .....	Undated
F-5.	25-Year, 24-Hour Rainfall Chart, Excerpted from the US Department of Commerce Frequency Atlas of the United States .....	Undated
F-6.	Fire Control analysis, prepared by Gage Babcock & Associates, Inc., for Clean Harbors of Chicago, Inc. ....	02/13/92
F-7.	Professional Engineer (PE) Assessment and Certification of the Design of Railcar Containment Basins .....	02/13/92
F-8.	Manufacturer's Literature for Steel Railcar Containment Pans .....	Undated
F-9.	Secondary Containment Calculations for Loading/Unloading Areas .....	03/10/93
F-10.	25-Year, 24-Hour Rainfall Map .....	Undated
G-1.	CHCI Dwg. No. 4221, Issue C - Emergency & Safety Equipment Location Plan .....	02/14/92
G-2.	CHCI Drawing No. 4220, Issue B - Evacuation Plan .....	02/14/92
G-3.	Anticipated Hazards at Clean Harbors of Chicago, Inc. ....	02/14/92

List of Appendices

Latest Revision Date

G-4.	CHCI Drawing No. 4204, Issue C - Site Plan Existing, Approved and Proposed Facilities & Operations .....	02/14/92
G-5.	Documentation of Emergency Coordination Agreements .....	05/03/91
G-6.	Air Emission Study, Prepared by Carlson Environmental, Inc. for Clean Harbors of Chicago, Inc. ....	05/03/91
H-1.	Job Descriptions/Job Titles .....	10/90
H-2.	Professional Resumes .....	Undated
H-3.	CHCI Training Documentation Form .....	Undated
H-4.	CHCI Personnel Training Summary, as of January 14, 1992 .....	Undated
I-1.	Closure Cost Calculations .....	03/15/93
I-2.	Certificate of Liability Insurance .....	Undated
J-1.	Existing Air Pollution Control Permits .....	12/20/90
J-2.	Existing Water Pollution Control Permits .....	07/31/90
K-1.	Facility Certification .....	02/14/92
K-2.	Certification by Professional Engineer .....	03/12/93
L-1.	Illinois EPA Operating Permits .....	02/15/91
L-2.	Release Reports .....	02/15/91
O-1.	Clean Harbors, Inc. SEC 10K Form .....	Undated
O-2.	Description of Violations of Federal, State, or Local laws, Regulations, or Ordinances .....	01/10/91
O-3.	Prior Conduct Certification forms .....	02/14/92

LWE:MAS:lat/sp/229Y,1-89

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
HAZARDOUS WASTE MANAGEMENT PERMIT**

**Name of Facility:** Clean Harbors of Chicago, Incorporated  
**Name of Owner:** Illinois International Port District  
**Name of Operator:** Clean Harbors of Chicago, Incorporated  
**Facility Location:** **Street Address:** 11800 South Stony Island Avenue  
**City, State:** Chicago, Illinois  
**EPA Identification Number:** ILD000608471  
**Effective Date:** November 4, 1993  
**Expiration Date:** November 4, 2003

**Authorized Activities:**

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the Hazardous and Solid Waste Amendments (HSWA) of 1984, (42 U.S.C. §6901, et seq.), and regulations promulgated thereunder by the United States Environmental Protection Agency (U.S. EPA) (codified in Title 40 of the Code of Federal Regulations (40 CFR)), Federal permit conditions (hereinafter called the permit) of the RCRA permit are issued to the Illinois International Port District, and to Clean Harbors of Chicago, Incorporated (hereinafter called the Permittees), for the facility located in Chicago, Illinois.

The RCRA permit contains both the effective Federal permit conditions (contained herein) and the effective State permit conditions issued by the State of Illinois RCRA program authorized under 40 CFR Part 271 (hereinafter called the State permit). The RCRA permit authorizes the Permittees to conduct hazardous waste management activities as specified in the RCRA permit.

**Permit Approval:**

On January 31, 1986, the State of Illinois received final authorization pursuant to Section 3006 of RCRA, 42 U.S.C. §6926, and 40 CFR Part 271, to administer the pre-HSWA RCRA hazardous waste program. On April 30, 1990, the State of Illinois also received authorization to administer certain specific portions of the hazardous waste program required under HSWA. Because the State of Illinois has not yet received authorization to administer the entire hazardous waste program requirements of RCRA, certain permit conditions must be issued by the U.S. EPA to address these requirements. These additional conditions are contained in this permit.

The Permittees must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in 40 CFR Parts 260, 261, 262, 264, 266, 268, 270, and 124, and applicable provisions of HSWA.

This permit is based on the assumption that the information submitted in the permit application, dated February 25, 1983, and in any subsequent amendments (hereinafter referred to as the application), is accurate. Any inaccuracies found in this information may be grounds for the termination, revocation and reissuance, or modification of this permit (see 40 CFR 270.41, 270.42 and 270.43) and potential enforcement action. The Permittees must inform the U.S. EPA of any deviation from or changes in the information in the submitted application as soon as the Permittees become aware of such deviation or changes.

**Opportunity to Appeal:**

Petitions for review must be submitted within 30 days after service of notice of the final permit decision. Any person who filed comments on the draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision. Any person who failed to file comments or failed to participate in the public hearing on the draft permit may petition the Environmental Appeals Board to review only to the extent of the changes from the draft to the final permit decision. The procedures for permit appeals are found in 40 CFR 124.19.

**Effective Date:**

This permit is effective as of the date specified on the previous page, unless a review is requested under 40 CFR 124.19. The permit shall remain in effect until the expiration date, unless revoked and reissued, or terminated (40 CFR 270.41 and 270.43), or continued in accordance with 40 CFR 270.51.

By: \_\_\_\_\_

*Norman R. Niedergang*

Norman R. Niedergang  
Associate Division Director  
Office of RCRA  
Waste Management Division

Date: \_\_\_\_\_

*9/27/93*

## PERMIT CONDITIONS

(Note: The regulatory citations in parentheses are incorporated by reference.)

### I. STANDARD CONDITIONS

#### A. EFFECT OF PERMIT (40 CFR 270.4 and 270.30(g))

The Permittees are allowed to manage hazardous waste in accordance with the conditions of the RCRA permit. Any management of hazardous waste not authorized in the RCRA permit is prohibited.

Compliance with the RCRA permit during its term constitutes compliance, for the purposes of enforcement, with Subtitle C of RCRA, except for those requirements not included in the permit which become effective by statute, or which are promulgated under 40 CFR Part 268, restricting the placement of hazardous waste in or on the land. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), 3008(h), 3013, or 7003 of RCRA; Sections 104, 106(a), or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. §9601 et seq., commonly known as CERCLA); or any other law providing for protection of public health or the environment.

#### B. PERMIT ACTIONS (40 CFR 270.30(f))

This permit may be modified, revoked and reissued, or terminated for cause as specified in 40 CFR 270.41, 270.42, and 270.43. This permit may also be reviewed and modified by the U.S. EPA, consistent with 40 CFR 270.41, to include any terms and conditions determined necessary to protect human health and the environment pursuant to Section 3005(c)(3) of RCRA. The filing of a request for a permit modification, revocation and reissuance, or termination, or the notification of planned changes, or anticipated noncompliance on the part of the Permittees does not stay the applicability or enforceability of any permit condition. The Permittees shall not perform any construction associated with a Class 3 modification request until such modification request is approved and the permit modification becomes effective.

#### C. SEVERABILITY (40 CFR 124.16)

The provisions of this permit are severable, and if any provision of this permit, or if the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

D. DUTIES AND REQUIREMENTS

1. Duty to Comply. (40 CFR 270.30(a))

The Permittees shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit (See 40 CFR 270.61). Any permit noncompliance, other than noncompliance authorized by an emergency permit, constitutes a violation of RCRA and HSWA and is grounds for enforcement action, permit termination, revocation and reissuance, modification, denial of a permit renewal application, or other appropriate action.

2. Duty to Reapply. (40 CFR 270.30(b) and 270.10(h))

The Permittees shall submit a complete application for a new permit at least 180 days before this permit expires unless: a) the Permittees no longer wish to operate a hazardous waste management facility; b) the Permittees are no longer required to have a RCRA permit; or c) permission for a later date has been granted by the Regional Administrator. The Regional Administrator shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

3. Permit Expiration. (40 CFR 270.13, 270.14, 270.50, and 270.51)

This permit and all conditions herein shall be effective for a fixed term not to exceed 10 years, and will remain in effect beyond the permit's expiration date only if the Permittees have submitted a timely, complete application (per 40 CFR 270.10 and applicable sections of 270.14 through 270.29): a) to both the U.S. EPA and the State; and b) through no fault of the Permittees, the Regional Administrator and the State have not issued a new permit, as set forth in 40 CFR 270.51.

4. Need to Halt or Reduce Activity Not a Defense. (40 CFR 270.30(c))

It shall not be a defense for the Permittees in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5. Duty to Mitigate. (40 CFR 270.30(d))

In the event of releases or noncompliance with the permit, the Permittees shall take all reasonable steps to minimize releases to the environment and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health and the environment.

6. Proper Operation and Maintenance. (40 CFR 270.30(e))

The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittees to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality control/quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.

7. Duty to Provide Information. (40 CFR 270.30(h) and 264.74)

The Permittees shall furnish to the Regional Administrator, within the time designated by the Regional Administrator, any relevant information which the Regional Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittees shall also furnish to the Regional Administrator, upon request, copies of records required to be kept by this permit.

8. Inspection and Entry. (40 CFR 270.30(i))

The Permittees shall allow the Regional Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter at reasonable times upon the Permittees' premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance, or as otherwise authorized by RCRA, any substances or parameters at any location.

9. Monitoring and Recordkeeping. (40 CFR 270.30(j), 270.31, 264.73, and 264.74)

The Permittees shall retain all reports, records, or other documents, required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the reports, records or other documents. These periods may be extended by request of the Regional Administrator at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.

10. Reporting Planned Changes. (40 CFR 270.30(1)(1))

The Permittees shall give notice to the Regional Administrator of any planned physical alterations or additions to the permitted facility, as soon as possible, and at least 30 days before construction of such alteration or addition is commenced.

11. Anticipated Noncompliance. (40 CFR 270.30(1)(2))

The Permittees shall give advance notice to the Regional Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Such notice does not constitute a waiver of the Permittees' duty to comply with permit requirements.

12. Transfer of Permits. (40 CFR 270.30(1)(3), 270.40(a), and 264.12(c))

This permit may be transferred by the Permittees to a new owner or operator only after providing notice to the Regional Administrator and only if the permit is modified, or revoked and reissued, pursuant to 40 CFR 270.40(b), 270.41(b)(2), or 270.42(a). Before transferring ownership or operation of the facility during its operating life, the Permittees shall notify the new owner or operator in writing of the requirements of 40 CFR Parts 264, 268, and 270 (including all applicable corrective action requirements), and shall provide a copy of the RCRA permit to the new owner or operator.

13. Compliance Schedules. (40 CFR 270.30(1)(5) and 270.33)

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted to the Regional Administrator no later than 14 days following each scheduled date.



14. Twenty-four Hour Reporting. (40 CFR 270.30(1)(6) and 270.33)

The Permittees shall report to the Regional Administrator any noncompliance with this permit which may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittees become aware of the circumstances. This report shall include the following:

- a. Information concerning the release of any hazardous waste which may endanger public drinking water supplies; and
- b. Information concerning the release or discharge of any hazardous waste, or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include:
  - (1) Name, address, and telephone number of the owner or operator;
  - (2) Name, address, and telephone number of the facility;
  - (3) Date, time, and type of incident;
  - (4) Name and quantity of material(s) involved;
  - (5) The extent of injuries, if any;
  - (6) An assessment of actual or potential hazard to the environment and human health outside the facility, where this is applicable; and
  - (7) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within 5 days of the time the Permittees become aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); steps taken to minimize impact on the environment; whether the noncompliance has been corrected, and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. The Permittees need not comply with the 5-day written notice requirement if the Regional Administrator waives the requirement. Upon waiver of the 5-day requirement, the Permittees shall submit a written report within 15 days of the time the Permittees become aware of the circumstances.

15. Other Noncompliance. (40 CFR 270.30(1)(10))

The Permittees shall report all other instances of noncompliance not otherwise required to be reported above within 15 days of when the Permittees become aware of the noncompliance. The reports shall contain the information listed in Condition I.D.14.

16. Other Information. (40 CFR 270.30(1)(11))

Whenever the Permittees become aware that they failed to submit any relevant facts, or submitted incorrect information to the Regional Administrator in the permit application or in any reports, records, or other documentation provided to the Regional Administrator, the Permittees shall promptly submit such facts or information.

17. Submittal of Reports or Other Information. (40 CFR 270.30(1)(7), (8), and (9), and 270.31)

All reports or other information required to be submitted pursuant to this permit shall be sent to:

RCRA Permitting Branch, HRP-8J  
Waste Management Division  
U.S. EPA, Region 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

Attention: Illinois Section

18. All other requirements contained in RCRA, as amended, and in 40 CFR 270.30 not set forth herein are hereby fully incorporated in this permit.

E. SIGNATORY REQUIREMENT (40 CFR 270.30(k))

All reports or other information submitted to or requested by the Regional Administrator, his designee, or authorized representative, shall be signed and certified as required by 40 CFR 270.11.

F. CONFIDENTIAL INFORMATION

In accordance with 40 CFR 270.12 and 40 CFR Part 2, Subpart B, any information submitted to the U.S. EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by marking the words "Confidential Business Information" on each page containing such information.

If no claim is made at time of submission, the U.S. EPA may make the information available to the public without further notice. If a claim is

asserted, the information will be treated in accordance with the procedures in 40 CFR Part 2.

G. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

The Permittees shall maintain at the facility, until closure is completed and certified by an independent registered professional engineer, all items required by 40 CFR 264.73, including the following documents and all amendments, revisions, and modifications to these documents:

1. Waste Analysis Plan, as required by 40 CFR 264.13 and this permit;
2. Operating Record, as required by 40 CFR 264.73 and this permit;
3. Notifications from generators accompanying each incoming shipment of wastes subject to 40 CFR Part 268, Subtitle C, that specify treatment standards, as required by 40 CFR 264.73, 268.7, and this permit; and
4. Records regarding closed-vent systems and control devices and/or equipment leaks as required by 40 CFR 264.1035, 264.1064, and 264.73, and Condition IV.C. of this permit.

II. LAND DISPOSAL REQUIREMENTS

A. GENERAL CONDITIONS

1. The Permittees shall comply with all the applicable self-implementing requirements of 40 CFR Part 268 and all applicable land disposal requirements which become effective by statute (Section 3004 of RCRA).
2. A mixture of any restricted waste with nonrestricted waste(s) is a restricted waste under 40 CFR Part 268.
3. The Permittees shall not in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with 40 CFR Part 268, Subpart D, to circumvent the effective date of a prohibition in 40 CFR Part 268, Subpart C, to otherwise avoid a prohibition in 40 CFR Part 268, Subpart C, or to circumvent a land disposal prohibition imposed by Section 3004 of RCRA.
4. The Permittees shall prepare and maintain a current list of the hazardous waste codes handled by the facility that are identified in 40 CFR 268, Subparts B and C. The list shall include all waste codes handled by the facility, and any associated treatment standards, and shall be updated through the inclusion of new treatment standards, as promulgated or amended. This list shall be provided to the U.S. EPA representatives, or their designees, upon request.

B. TESTING AND RELATED REQUIREMENTS

1. The Permittees must test, in accordance with 40 CFR 268.7(a), any waste generated at the facility, or use knowledge of the waste, to determine if the waste is restricted from land disposal.
2. For restricted wastes with treatment standards expressed as concentrations in the waste extract, as specified in 40 CFR 268.41, the Permittees shall test the wastes or waste residues, or extracts of such residues developed using the test methods described in Appendix II of 40 CFR Part 261 (Toxicity Characteristic Leaching Procedure, or TCLP) to assure that the wastes or waste treatment residues or extracts meet the applicable treatment standards of 40 CFR Part 268, Subpart D. Such testing shall be performed as required by 40 CFR 264.13.
3. A restricted waste for which a treatment technology is specified under 40 CFR 268.42(a) may be land disposed after it is treated using that specified technology or an equivalent treatment method approved by the Administrator under the procedures set forth in 40 CFR 268.42(b).
4. For restricted wastes with treatment standards expressed as concentrations in the waste, as specified in 40 CFR 268.43, the Permittees shall test the wastes or treatment residues (not extracts of such residues) to assure that the wastes or waste treatment residues meet the applicable treatment standards of 40 CFR Part 268, Subpart D. Such testing shall be performed as required by 40 CFR 264.13.
5. The Permittees shall comply with all the applicable notification, certification, and recordkeeping requirements described in 40 CFR 268.7(a) and (b).

C. STORAGE PROHIBITIONS

1. The Permittees shall comply with all the applicable prohibitions on storage of restricted wastes specified in 40 CFR Part 268, Subpart E.
2. Except as otherwise provided in 40 CFR 268.50, the Permittees may store restricted wastes in tanks and containers solely for the purpose of the accumulation of such quantities of hazardous wastes as necessary to facilitate proper recovery, treatment, or disposal provided that:
  - a. Each container is clearly marked to identify its contents and the date each period of accumulation begins; and
  - b. Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility.

3. The Permittees may store restricted wastes for up to 1 year unless the U.S. EPA or its authorized agent can demonstrate that such storage was not solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.
4. The Permittees may store restricted wastes beyond 1 year; however, the Permittees bear the burden of proving that such storage was solely for the purpose of accumulating such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.
5. The Permittees shall not store any liquid hazardous waste containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm unless the waste is stored in a storage facility that meets the requirements of 40 CFR 761.65(b). This waste must be removed from storage and treated or disposed as required by 40 CFR Part 268 within 1 year of the date when such wastes are first put into storage. Condition II.C.4. above, that allows storage for over 1 year with specified demonstration, does not apply to PCB wastes prohibited under 40 CFR 268.32.

### III. TOXICITY CHARACTERISTIC AND ADDITIONAL WASTES

#### A. WASTE IDENTIFICATION

The Permittees may store and/or treat the following wastes in the tank and container storage areas identified in the State permit, subject to the terms of the RCRA permit (including the tank and container storage capacities specified in the State permit) and as follows:

<u>Hazardous Wastes Which Exhibit the Toxicity Characteristic</u>	<u>EPA Hazardous Waste Number</u>	<u>Description of Unit(s)</u>
Acids and Alkalies	D004 through D011	Tanks and Containers
Organic wastes, halogenated and non- halogenated solvents	D012 through D043	Tanks and Containers
Waste poisons, pesticides	D012 through D017	Tanks and Containers
<u>Additional Wastes</u>		
Petroleum Refinery Sludges	F037 and F038	Tanks and Containers
Chlorinated Toluenes Production Wastes	K141 through K151	Tanks and Containers

B. WASTE CHARACTERIZATION

The Permittees must use the Toxicity Characteristic Leaching Procedure (TCLP) (Appendix II of 40 CFR Part 261), or use knowledge of the waste to determine whether a waste exhibits the characteristic of toxicity, as defined in 40 CFR 261.24. Use of the TCLP does not exempt the Permittees from also using the Extraction Procedure (EP) toxicity test if required by the State permit conditions.

C. CONDITIONS REGARDING UNITS

All units described in Condition III.A. above shall be operated in accordance with the State permit conditions pertaining to those units.

IV. AIR EMISSION STANDARDS

A. PROCESS VENTS

The Permittees shall comply with all applicable requirements of 40 CFR Part 264, Subpart AA, regarding air emission standards for process vents.

B. EQUIPMENT LEAKS

The Permittees shall comply with all applicable requirements of 40 CFR Part 264, Subpart BB, regarding air emission standards for equipment leaks.

C. RECORDKEEPING

The Permittees shall comply with all applicable recordkeeping and reporting requirements described in 40 CFR 264.1035, 264.1036, 264.1064, and 264.1065.

D. NOTIFICATION OF REGULATED ACTIVITY

The Permittees shall notify the Regional Administrator of any waste management units which become subject to the requirements of 40 CFR Part 264, Subparts AA and BB, within 30 days of startup of the regulated activity.

E. DUTY TO COMPLY WITH FUTURE REQUIREMENTS

The Permittees shall comply with all self-implementing provisions of any future air regulations promulgated under the provisions of Section 3004(n) of RCRA, as amended by HSWA.

V. SCHEDULE OF COMPLIANCE

Air Emission Regulations

Due Date

Notification of waste management units subject to the requirements of 40 CFR Part 264, Subparts AA and BB.

30 days after startup of the activity.

**RESPONSE TO COMMENTS  
REGARDING THE U.S. EPA PORTION OF  
THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)  
HAZARDOUS WASTE MANAGEMENT PERMIT FOR  
CLEAN HARBORS OF CHICAGO, INCORPORATED, (ILD000608471), AND  
THE ILLINOIS INTERNATIONAL PORT DISTRICT**

**INTRODUCTION**

This response is issued pursuant to 40 Code of Federal Regulations (40 CFR) Section 124.17, "Response to Comments," which states that the United States Environmental Protection Agency (U.S. EPA) shall: (1) specify which provisions, if any, of the draft permit have been changed in the final permit decision, and the reasons for the change; (2) describe and respond to all significant comments on the draft permit raised during the public comment period, or during any hearing; (3) include in the administrative record for the final permit decision, any documents cited in the response to comments; and (4) make the response to comments available to the public. If new points are raised or new material is supplied during the public comment period, U.S. EPA may also document its response to those matters by adding new material to the administrative record.

The public comment period regarding the RCRA permit for the Clean Harbors, Inc., facility located in Chicago, Illinois, commenced May 19, 1993, with the publication of a notice in the Southtown Economist, a south suburban regional newspaper. This public notice, which was also published on May 27 and June 3, 1993, in the same newspaper, announced the intent of the Illinois Environmental Protection Agency (IEPA) and the U.S. EPA to issue a RCRA hazardous waste management permit to Clean Harbors of Chicago, Incorporated. The notices requested public comments on the proposed permit and also announced a public hearing on the permit to be held at the Olive Harvey College, on July 15, 1993. The public hearing was held as scheduled, and both written and oral comments were accepted. Further written comments were accepted through August 14, 1993.

Clean Harbors submitted written comments regarding the Federal portion of the draft permit. Those comments are summarized below. The IEPA received oral and written comments from both the public and the Company regarding the State portion of the permit. The comments on the State permit will be addressed by the IEPA in its response to comments.

**COMMENTS AND RESPONSES**

**1. Comment**

Clean Harbors requested to make changes to Condition III.A. of the permit, on page 9 of 10, "...for consistency with 40 CFR 261.24." The Company suggested changing the descriptions of the wastes described under Condition III.A. to "Toxicity Characteristic Metals", "Toxicity Characteristic Organics", and "Toxicity Characteristic Pesticides." In addition, the Company asked to change EPA hazardous waste code "D0011" to "D011."

## Response

The revised language, as proposed by the Company, is not consistent with the terms defined under 40 CFR 261.24. The list of hazardous waste codes identified in Condition III.A. only addresses wastes that exhibit the toxicity characteristic. Therefore, the title of the first column under Condition III.A. has been changed to "Hazardous Wastes Which Exhibit the Toxicity Characteristic" to clarify that in that particular column the U.S. EPA is only addressing those wastes exhibiting the toxicity characteristic, for which the State is not yet authorized to administer in lieu of the Federal requirements. (Please note that the State permit includes the entire list of hazardous waste codes that the Permittee is allowed to manage at the Clean Harbors facility.)

The typographical error in the waste code number "D0011" was corrected to read "D011."

## 2. Comment

Clean Harbors requests that the following codes, which were inadvertently omitted from previous submittals, be added to the list of codes which are approved for storage and transfer at the facility: K141, K142, K143, K144, K145, K146, K147, K148, K149, K150, K151.

## Response

In response to Clean Harbors' request, EPA hazardous waste codes K141 through K151 were added to Condition III.A. of the permit under a new column titled "Additional Wastes." The addition of these wastes, identified as "chlorinated toluenes production wastes" by the U.S. EPA, does not affect the treatment capacity proposed in the permit application or any operating condition specified in the permit.

It should be noted that the U.S. EPA also added to the column titled "Additional Wastes" two types of petroleum sludges identified under EPA hazardous waste numbers F037 and F038. These wastes had been inadvertently omitted from the draft permit by the U.S. EPA at the time the permit was written, although they had been addressed in the Clean Harbors' Part B permit application.

## DETERMINATIONS

As part of the final permit decision, some provisions of the draft permit were modified, expanded and/or clarified in response to Clean Harbors' request. The changes were described in detail in the U.S. EPA's responses to Clean Harbors' comments. In addition, minor editing changes were made to the Index to the permit and to the title of Condition III., which do not change the content or substance of the draft permit.

Based on a full review of all relevant data provided to the U.S. EPA, the U.S. EPA has determined that the final permit contains such terms and conditions necessary to protect human health and the environment.





State of Illinois

# ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

## **FINAL DECISION NOTICE**

The Illinois Environmental Protection Agency provides notice pursuant to 35 Ill. Adm. Code 705.201 (c), that a final RCRA/HSWA hazardous waste permit was issued to the Clean Harbor s facility in Chicago on September 30, 1993.

The applicant may petition the Illinois Pollution Control Board to contest this permit decision pursuant to 35 Ill. Adm. Code 705.212. Provisions of the U.S. EPA permit decision may be appealed to the Environmental Appeals Board in Washington D.C. pursuant to 40 CFR 124.19.

The deadline to appeal the IEPA permit decision is November 4, 1993.

The deadline to appeal the U.S. EPA permit decision is October 30, 1993.

For additional information on the appeal process or to receive a copy of the RCRA/HSWA permit decision or the IEPA response to comments, please contact:

Illinois Environmental Protection Agency  
Office of Community Relations  
Attention: Bradley Frost - #5  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
phone: 217/782-5562

**§ 124.19 Appeal of RCRA, UIC, and PSD permits.**

(a) Within 30 days after a RCRA, UIC, or PSD final permit decision (or a decision under § 270.29 to deny a permit for the active life of a RCRA hazardous waste management facility or unit) has been issued under § 124.15, any person who filed comments on that draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision. Any person who failed to file comments or failed to participate in the public hearing on the draft permit may petition for administrative review only to the extent of the changes from the draft to the final permit decision. The 30-day period within which a person may request review under this section begins with the service of notice of the Regional Administrator's action unless a later date is specified in that notice. The petition shall include a statement of the reasons supporting that review, including a dem-

**§ 124.19**

onstration that any issues being raised were raised during the public comment period (including any public hearing) to the extent required by these regulations and when appropriate, a showing that the condition in question is based on:

(1) A finding of fact or conclusion of law which is clearly erroneous, or

(2) An exercise of discretion or an important policy consideration which the Environmental Appeals Board should, in its discretion, review.

(b) The Environmental Appeals Board may also decide on its initiative to review any condition of any RCRA, UIC, or PSD permit issued under this part. The Environmental Appeals Board must act under this paragraph within 30 days of the service date of notice of the Regional Administrator's action.

(c) Within a reasonable time following the filing of the petition for review, the Environmental Appeals Board shall issue an order granting or denying the petition for review. To the extent review is denied, the conditions of the final permit decision become final agency action. Public notice of any grant of review by the Environmental Appeals Board under paragraph (a) or (b) of this section shall be given as provided in § 124.10. Public notice shall set forth a briefing schedule for the appeal and shall state that any interested person may file an amicus brief. Notice of denial of review shall be sent only to the person(s) requesting review.

(d) The Environmental Appeals Board may defer consideration of an appeal of a RCRA or UIC permit under this section until the completion of formal proceedings under subpart E or F relating to an NPDES permit issued to the same facility or activity upon concluding that:

(1) The NPDES permit is likely to raise issues relevant to a decision of the RCRA or UIC appeals;

(2) The NPDES permit is likely to be appealed; and

(3) *Either:* (i) The interests of both the facility or activity and the public are not likely to be materially adversely affected by the deferral; or

**40 CFR Ch. I (7-1-92 Edition)**

(ii) Any adverse effect is outweighed by the benefits likely to result from a consolidated decision on appeal.

(e) A petition to the Environmental Appeals Board under paragraph (a) of this section is, under 5 U.S.C. 704, a prerequisite to the seeking of judicial review of the final agency action.

(f)(1) For purposes of judicial review under the appropriate Act, final agency action occurs when a final RCRA, UIC, or PSD permit is issued or denied by EPA and agency review procedures are exhausted. A final permit decision shall be issued by the Regional Administrator:

(i) When the Environmental Appeals Board issues notice to the parties that review has been denied;

(ii) When the Environmental Appeals Board issues a decision on the merits of the appeal and the decision does not include a remand of the proceedings; or

(iii) Upon the completion of remand proceedings if the proceedings are remanded, unless the Environmental Appeals Board's remand order specifically provides that appeal of the remand decision will be required to exhaust administrative remedies.

(2) Notice of any final agency action regarding a PSD permit shall promptly be published in the *FEDERAL REGISTER*.

(g) Motions to reconsider a final order shall be filed within ten (10) days after service of the final order. Every such motion must set forth the matters claimed to have been erroneously decided and the nature of the alleged errors. Motions for reconsideration under this provision shall be directed to, and decided by, the Environmental Appeals Board. Motions for reconsideration directed to the administrator, rather than to the Environmental Appeals Board, will not be considered, except in cases that the Environmental Appeals Board has referred to the Administrator pursuant to § 124.2 and in which the Administrator has issued the final order. A motion for reconsideration shall not stay the effective date of the final order unless specifically so ordered by the Environmental Appeals Board.

(48 FR 14264, Apr. 1, 1983, as amended at 54 FR 9807, Mar. 7, 1989; 57 FR 5335, Feb. 13, 1992)

**RECEIVED**  
OCT 05 1993  
OFFICE OF RCRA  
WASTE MANAGEMENT DIVISION  
EPA REGION V



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGIONS 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

DEC 28 2005

REPLY TO THE ATTENTION OF:  
DW-8J

**CERTIFIED MAIL: 7001 0320 0006 1558 4253**  
**RETURN RECEIPT REQUESTED**

Mr. James Laubsted  
Clean Harbors Services, Inc.  
Facility Compliance Manager  
11800 South Stony Island Avenue  
Chicago, IL 60617

RE: Final Federal RCRA Permit  
Clean Harbors Services Inc.  
ILD 000 608 471

Dear Mr. Laubsted:

Enclosed is a copy of the Federal portion of a Resource Conservation and Recovery Act (RCRA) Hazardous Waste permit for the above-referenced facility. The Hazardous Waste permit contains both Federal permit conditions (contained herein) and State permit conditions, which were issued separately by the State of Illinois RCRA program authorized under Title 40 of the Code of Federal Regulations (40 CFR) Part 271. When both this portion and the State permit are effective, Clean Harbors Services, Inc., will have an effective RCRA Hazardous Waste permit. Any hazardous waste activity not included in the RCRA permit is prohibited when such activity requires a RCRA Hazardous Waste permit.

This Federal permit is effective on the date indicated on the signature page of the Federal permit. Eligibility to appeal the Federal permit is discussed further in 40 CFR §124.19. The original and one copy of the petition must be received by U.S. EPA in Washington, D.C., via U.S. Postal Service (except by Express Mail) at the address indicated below within 30 days after service of notice of the final permit decision.

United States Environmental Protection Agency  
Clerk of the Board, Environmental Appeals Board (MC-1103B)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460-0001

Submissions can also be made by hand or courier, including Federal Express, UPS, and U.S. Postal Express Mail at the following address:

United States Environmental Protection Agency  
Environmental Appeals Board  
Colorado Building  
1341 G Street, NW  
Suite 600  
Washington, D.C. 20005

A copy of the petition should also be sent to:

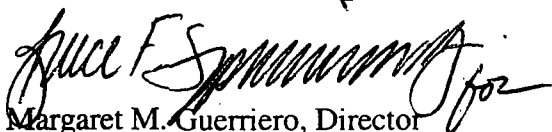
Waste Management Branch (DW-8J)  
U.S. EPA Region 5  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

The procedures for filing an appeal are found in 40 CFR § 124.19. The administrative appeal procedures must be completed prior to any action seeking judicial review.

This Federal permit is effective Dec. 28, 2005. It shall remain valid until December 9, 2015, unless the Federal permit is revoked and reissued, or terminated pursuant to 40 CFR § 270.41 and § 270.43. Failure to comply with any conditions of the Federal permit may result in civil and/or criminal penalties.

If you have any questions concerning this permit, please contact Jim Blough of my staff, at (312) 886-2967.

Sincerely,



Margaret M. Guerriero, Director  
Waste, Pesticides and Toxics Division

Enclosure

cc: Mark Schollenberger, IEPA

S. Postal Service  
**CERTIFIED MAIL RECEIPT**

(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

CHICAGO, IL 60617

Postage

\$ 1.29

Certified Fee

2.30

Return Receipt Fee  
(Endorsement Required)

1.75

Restricted Delivery Fee  
(Endorsement Required)

Total Postage & Fees

\$ 5.34

UNIT ID# 0043

Postmark  
Here

Clerk: TS/PS

01/05/06

DW8

Sent To

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

Mr Anthony Iannello  
3600 East 95<sup>th</sup> Street  
Chicago IL 60617

9424 855T 9000 0260 T00L  
7001 0320 0006 1558 4246

## Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A signature upon delivery
- A record of delivery kept by the Postal Service for two years

### **Important Reminders:**

- Certified Mail may **ONLY** be combined with First-Class Mail or Priority Mail.
- Certified Mail is *not* available for any class of international mail.
- **NO INSURANCE COVERAGE IS PROVIDED** with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "*Restricted Delivery*".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

**IMPORTANT: Save this receipt and present it when making an inquiry.**

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR ANTHONY Inella  
3600 EAST 95TH ST  
Chicago IL 60617

2. Article Number

(Transfer from service label)

700 0320 0006 1558 4246

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly)

Luke McWilliams

B. Date of Delivery

C. Signature

X Luke McWilliam

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

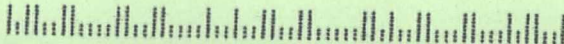
UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

James Blough  
U.S. EPA - Region 5 (DW-8J)  
77 West Jackson  
Chicago, IL 60604





U.S. Postal Service

# CERTIFIED MAIL RECEIPT

(Domestic Mail Only; No Insurance Coverage Provided)

OFFICIAL USE

CHICAGO, IL 60617

Postage

\$

1.52

Certified Fee

2.30

Return Receipt Fee  
(Endorsement Required)

1.75

Restricted Delivery Fee  
(Endorsement Required)

Total Postage & Fees

\$

5.57

UNIT ID: 0041

Postmark  
Here

Clerk: KBQBCW

01/05/06

TSPS

Sent To

Street, Apt. No.;  
or PO Box No.

City, State, ZIP+4

Mr James Laubsted.

11800 South Stony Island

Chicago IL 60617

7001 0320 0000 9551 9000 0230 1001



# Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A signature upon delivery
- A record of delivery kept by the Postal Service for two years

## Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail or Priority Mail.
- Certified Mail is not available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "*Restricted Delivery*".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

**IMPORTANT: Save this receipt and present it when making an inquiry.**

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. James Laubsted  
Clean Harbors Services Inc.  
Facility Compliance Manager  
11800 South Stony Island Avenue  
Chicago, IL 60617

2. Article Number

(Transfer from service label)

7001 0320 0006 1558 4253

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly)

FARENICKER

B. Date of Delivery

1-6-06

C. Signature

X

FArenicker

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

CLEAN HARBORS OF CHICAGO, INC.  
11800 South Stony Island Avenue  
Chicago, Illinois 60617  
(312) 646-6202

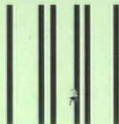
3. Service Type

☐ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

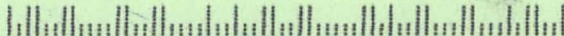
UNITED STATES POSTAL SERVICE



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-15

- Sender: Please print your name, address, and ZIP+4 in this box •

James Blough  
U.S. EPA - Region 5 (DW-8J)  
77 West Jackson  
Chicago, IL 60604





OF CHICAGO, INC.  
11800 S. STONY ISLAND AVENUE  
CHICAGO, IL 60617  
(312) 646-6202

Certified Mail - Return Receipt Requested #P082654539

August 12, 1993

Mr. Mark Schollenberger, P.E.  
Environmental Protection Engineer  
Illinois Environmental Protection Agency  
Division of Land Pollution Control -- #24  
2200 Churchill Road  
P.O. Box 19276  
Springfield, IL 62794-9276

RECEIVED

AUG 16 1993

EPA-BOL  
PERMIT SECTION

Dear Mr. Schollenberger:

Clean Harbors of Chicago, Inc. ("CHCI") is submitting additional comments to the RCRA Part B Draft Permit issued by the Agency on May 24, 1993.

CHCI intends to permanently mount the mobile plate and frame filter press on a mezzanine. The filter press will then function similar to the permanently mounted filter press in present operation. The facility has already received approval for this change from the Agency's Air Division.

CHCI also intends to add a lamella clarifier in parallel to the secondary clarifier of the Centralized Wastewater Treatment System. Permit Modifications have been submitted to the Agency's Water and Air Divisions.

I commented at the Part B Public Hearing that CHCI would submit the amount paid to lease the site from the Illinois Port Authority. The amount for 1993 is \$169,000.

During our telephone conversation of August 9th I confirmed several points. It was decided that a comment about using the TCLP Certification Form when applicable in place of TCLP analysis to the Waste Analysis Plan was unnecessary. It was also determined that trailers of non-hazardous treatment residue from the Centralized Wastewater Treatment system awaiting completion of TCLP analysis would be governed as generator waste under 90 days.

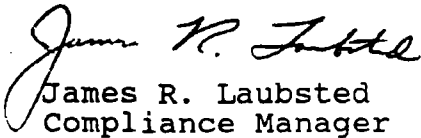


CHCI has also agreed to revise the Inspection Plan Report Form to mirror the Inspection Schedule of Attachment B of the RCRA Part B Draft Permit. This form will be utilized no later than the effective date of the RCRA Part B Permit.

CHCI is also submitting a revised RCRA Part A form as indicated in Paul Ahearn's letter of August 5th.

If you have any further questions concerning the permit application, please contact me at (312)646-6202.

Sincerely,

  
James R. Laubsted  
Compliance Manager

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L P 0 0 0 6 0 8 4 7 1

## VII. Operator Information (see instructions)

Name of Operator

C L E A N H A R B O R S F C H I C A G O I N C

Street or P.O. Box

1 1 8 0 0 S O U T H S T O N Y I S L A N D A V E

City or Town

State

ZIP Code

C H I C A G O I L 6 0 6 1 7 -

Phone Number (area code and number)

3 1 2 - 6 4 6 - 6 2 0 2

B. Operator Type

P

C. Change of Operator Indicator

Yes

X

No

Date Changed

Month

Day

Year

0 1 2 6 8 9

## VIII. Facility Owner (see instructions)

A. Name of Facility's Legal Owner

C L E A N H A R B O R S O F C H I C A G O I N C

Street or P.O. Box

1 1 8 0 0 S O U T H S T O N Y I S L A N D A V E

City or Town

State

ZIP Code

C H I C A G O I L 6 0 6 1 7 -

Phone Number (area code and number)

3 1 2 - 6 4 6 - 6 2 0 2

B. Owner Type

P

C. Change of Owner Indicator

Yes

X

No

Date Changed

Month

Day

Year

0 1 2 6 8 9

## IX. SIC Codes (4-digit, in order of significance)

Primary

4 9 5 3 (description) REFUSE SYSTEMS

Secondary

(description)

Secondary

(description)

Secondary

(description)

## X. Other Environmental Permits (see instructions)

A. Permit Type  
(enter code)

B. Permit Number

C. Description

R

1 9 8 0 - 3 6 - 0 P IL EPA LAND (OPERATIONS)

R

1 9 8 4 - E P - 0 8 8 9 IL EPA LAND (OPERATIONS)

P

0 3 1 0 0 B T E

E

1 9 9 0 - E N - 1 3 0 1 IL EPA WATER POLLUTION CONTROL

<b>For EPA Regional Use Only</b>  <b>Date Received</b> Month   Day   Year <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	 United States Environmental Protection Agency Washington, DC 20460 <h1 style="margin: 10px 0;">Hazardous Waste Permit Application</h1> <h2 style="margin: 10px 0;">Part A</h2> <p>(Read the Instructions before starting)</p>	<b>For State Use Only</b>  
---	---	-----------------------------------

**I. ID Number(s)****A. EPA ID Number****B. Secondary ID Number (If applicable)**

I L D 0 0 0 6 0 8 4 7 1

**II. Name of Facility**

C L E A N   H A R B O R S   O F   C H I C A G O   I N C

**III. Facility Location (Physical address not P.O. Box or Route Number)****A. Street**

1 1 8 0 0   S O U T H   S T O N Y   I S L A N D   A V E

**Street (continued)****City or Town****State****ZIP Code**

C H I C A G O

I L

6 0 6 1 7 -

**County Code (If known)****County Name**

C O O K

**B. Land Type****C. Geographic Location****D. Facility Existence Date****(enter code)****LATITUDE (degrees, minutes, & seconds)****LONGITUDE (degrees, minutes, & seconds)****Month****Day****Year**

S

4 1

4 0

4 4

8 7

3 4

4 6

0 7

2 9

1 9 8 0

**IV. Facility Mailing Address****Street or P.O. Box**

S A M E

**City or Town****State****ZIP Code****V. Facility Contact (Person to be contacted regarding waste activities at facility)****Name (last)****(first)**

L A U B S T E D

J A M E S

**Job Title****Phone Number (area code and number)**

C O M P L I A N C E   M G R

3 1 2 - 6 4 6 - 6 2 0 2

**VI. Facility Contact Address (See Instructions)****A. Contact Address****Location****Mailing**

X

**B. Street or P.O. Box****City or Town****State****ZIP Code**

AUG 16 1993

EPA - BOL

PERMIT SECTION



EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

## XII. Process - Codes and Design Capacities (continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line Number	A. PROCESS CODE (from list above)			B. PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	FOR OFFICIAL USE ONLY					
				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)							
X 1	S	0	2	600	G	0	0	2				
X 2	T	0	3	20	E	0	0	1				
1	S	0	1	103,125 (55 x 1875)	G	0	0	5				
2	S	0	1	300 (10 x 30)	Y	0	1	0				
3	S	0	2	1,430,596	G	0	5	3				
4	T	0	1	200,000 [A1]	U	0	0	1				
5	T	0	1	50,000 [B1]	U	0	0	1				
6	T	0	1	200,000 [C1]	U	0	0	1				
7												
8												
9												
1 0												
1 1												
1 2												

NOTE: If you need to list more than 12 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for additional treatment processes in Item XIII.

## XIII. Additional Treatment Processes (follow instructions from Item XII)

Line Number (enter numbers in sequence with Item XII)	A. PROCESS CODE			B. TREATMENT PROCESS DESIGN CAPACITY		C. PROCESS TOTAL NUMBER OF UNITS	D. DESCRIPTION OF PROCESS		
				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				
0 7	T	0	4	12,000	U	0	0	4	Stabilization/Fixation with lime in rolloff containers [D1]
0 8	T	0	4	400,000	U	0	0	3	Plate and Frame Filter Press [E1]
0 9	T	0	4	3,000	J	0	0	1	Compaction [F1]
1 0	T	0	4	12,000	U	0	0	1	Treatment of D002 Liquid/Solid Mixtures [G1]

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

## XI. Nature of Business (provide a brief description)

Clean Harbors of Chicago, Inc. (CHCI) offers a liquid industrial waste pretreatment service. CHCI accepts hazardous and non-hazardous wastewaters which do not meet sewer discharge specifications. Through physical and chemical treatment, CHCI produces an effluent acceptable for sewer discharge and a dewatered sludge. The effluent is discharged into the Metropolitan Water Reclamation District of Greater Chicago sewer system and the sludge is shipped to properly-licensed offsite treatment and/or disposal facilities. CHCI also accepts hazardous and non-hazardous waste, which is stored in tanks and containers and subsequently transferred to properly-licensed offsite treatment and/or disposal facilities.

## XII. Process - Codes and Design Capacities

- A. **PROCESS CODE** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in item XIII.
- B. **PROCESS DESIGN CAPACITY** - For each code entered in column A, enter the capacity of the process.
1. **AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.
  2. **UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.
- C. **PROCESS TOTAL NUMBER OF UNITS** - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
D79	<b>DISPOSAL:</b> INJECTION WELL	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY	GALLONS .....	G
D80	LANDFILL	ACRE-FEET OR HECTARE-METER	GALLONS PER HOUR .....	E
D81	LAND APPLICATION	ACRES OR HECTARES	GALLONS PER DAY .....	U
D82	OCEAN DISPOSAL	GALLONS PER DAY OR LITERS PER DAY	LITERS .....	L
D83	SURFACE IMPOUNDMENT	GALLONS OR LITERS	LITERS PER HOUR .....	H
S01	<b>STORAGE:</b> CONTAINER (barrel, drum, etc.)	GALLONS OR LITERS	LITERS PER DAY .....	V
S02	TANK	GALLONS OR LITERS	SHORT TONS PER HOUR .....	D
S03	WASTE PILE	CUBIC YARDS OR CUBIC METERS	METRIC TONS PER HOUR .....	W
S04	SURFACE IMPOUNDMENT	GALLONS OR LITERS	SHORT TONS PER DAY .....	N
T01	<b>TREATMENT:</b> TANK	GALLONS PER DAY OR LITERS PER DAY	METRIC TONS PER DAY .....	S
T02	SURFACE IMPOUNDMENT	GALLONS PER DAY OR LITERS PER DAY	POUNDS PER HOUR .....	J
T03	INCINERATOR	SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR	KILOGRAMS PER HOUR .....	R
T04	<b>OTHER TREATMENT</b> <small>(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundment or incinerators. Describe the processes in the space provided in item XIII.)</small>	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC YARDS .....	Y
			CUBIC METERS .....	C
			ACRES .....	B
			ACRE-FEET .....	A
			HECTARES .....	Q
			HECTARE-METER .....	F
			BTU's PER HOUR .....	K

Primary ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

1 1 0 0 0 6 0 8 4 7 1

Description of Hazardous Waste (continued)

Line Number	A-EPA HAZARDOUS WASTE NO. (enter code)	B-ESTIMATED ANNUAL QUANTITY OF WASTE	C-UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)	(2) PROCESS DE (if code is not on list)	USE
	D 1 0 0 4	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 0 5	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 0 6	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 0 7	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 0 8	10,000	T	S 0 1 S 0 2 0 0 0		
	D J 0 9	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 1 0	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 1 1	10,000	T	S 0 1 S 0 2 0 0 0	Al - Included with above	
	D 1 0 0 1	10,000	T	S 0 1 S 0 2 0 0 0		
	D 1 0 0 2	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 3	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 4	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 5	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 6	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 7	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 8	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 0 9	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 1 0	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 1 1	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 1 8	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 1 9	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 0	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 1	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 2	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 3	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 4	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 5	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 6	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 7	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 8	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 2 9	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 3 0	10,000	T	S 0 1 S 0 2 0 0 0		
	D 0 3 1	10,000	T	S 0 1 S 0 2 0 0 0		

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

111010101061081411

## XIV. Description of Hazardous Wastes

**A. EPA HAZARDOUS WASTE NUMBER** - For each listed hazardous waste, enter the four-digit number from 40 CFR, Part 261, Subpart C that describes the characteristic and/or the toxic constituent of those hazardous wastes.

**B. ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic constituent entered in column A, estimate the total annual quantity of all the non-listed wastes that will be handled which possess the characteristic or constituent.

**C. UNIT OF MEASURE** - For each quantity entered in column B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the unit of measure must be converted into one of the required units, taking into account the appropriate density or specific gravity of the waste.

## D. PROCESSES

## 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A, select the code(s) from the list of process codes contained in Item XII.A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic constituent entered in column A, select the code(s) from the list of process codes contained in Item XII.A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous waste that possess that characteristic or toxic constituent.

**NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:**

- Enter the first two spaces.
- Enter "000" in the extreme right hand of Item XIV-D(1).
- Enter in the space provided on page 2, Item XIV-E, the line number and the additional code(s).

## 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D(2)).

**NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER** - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D, describing the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste in column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

**EXAMPLE FOR COMPLETING ITEM XIV:** (shown in the numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome sludge from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and the waste will be a landfill.

Line Number	A. EPA HAZARD WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS									
							(1) PROCESS CODES (enter code)					(2) PROCESS DESCRIPTION (if a code is not entered in D(1))				
X 1	K	0	5	4	900	P	T	0	3	D	8	0				
X 2	D	0	0	2	400	P	T	0	3	D	8	0				
X 3	D	0	0	1	100	P	T	0	3	D	8	0				
X 4	D	0	0	2												Included With Above

Secondary ID Number (enter from page 1)

**Abstract**

## A. PROCESSES

Page 6C

EPA LD. Number (enter from page 1)

Secondary ID Number (enter from page 1)

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	D10132	10.000	T	S1011	S1012	010	010		
2	D10133	10.000	T	S1011	S1012	010	010		
3	D10134	10.000	T	S1011	S1012	010	010		
4	D10135	10.000	T	S1011	S1012	010	010		
5	D10136	10.000	T	S1011	S1012	010	010		
6	D10137	10.000	T	S1011	S1012	010	010		
7	D10138	10.000	T	S1011	S1012	010	010		
8	D10139	10.000	T	S1011	S1012	010	010		
9	D10140	10.000	T	S1011	S1012	010	010		
10	D10141	10.000	T	S1011	S1012	010	010		
11	D10142	10.000	T	S1011	S1012	010	010		
12	D10143	10.000	T	S1011	S1012	010	010		
13	K10162	10.000	T	S1011	S1012	010	010		B1 - Included with above
14	D10101	10.000	T	S1011	S1012	010	010		
15	D10102	10.000	T	S1011	S1012	010	010		
16	D10103	10.000	T	S1011	S1012	010	010		
17	D10104	10.000	T	S1011	S1012	010	010		
18	D10105	10.000	T	S1011	S1012	010	010		
19	D10106	10.000	T	S1011	S1012	010	010		
20	D10107	10.000	T	S1011	S1012	010	010		
21	D10108	10.000	T	S1011	S1012	010	010		
22	D10109	10.000	T	S1011	S1012	010	010		
23	D10110	10.000	T	S1011	S1012	010	010		
24	D10111	10.000	T	S1011	S1012	010	010		
25	D10118	10.000	T	S1011	S1012	010	010		
26	D10119	10.000	T	S1011	S1012	010	010		
27	INTENTIONALLY LEFT BLANK								
28	D10121	10.000	T	S1011	S1012	010	010		
29	D10122	10.000	T	S1011	S1012	010	010		
30	D10123	10.000	T	S1011	S1012	010	010		
31	D10124	10.000	T	S1011	S1012	010	010		
32	D10125	10.000	T	S1011	S1012	010	010		
33	D10126	10.000	T	S1011	S1012	010	010		

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

1 2 3 4 5 6 7 8 9 10 11 12

IV. Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES								(2) PROCESS DESCRIPTION (if a code is not entered in D(1))	
				(1) PROCESS CODES (enter)									
1	D 0 2 1	10,000	T	S	0	1	S	0	2	0	0	0	
2	D 0 2 2	10,000	T	S	0	1	S	0	2	0	0	0	
3	D 0 2 3	10,000	T	S	0	1	S	0	2	0	0	0	
4	D 0 2 4	10,000	T	S	0	1	S	0	2	0	0	0	
5	D 0 2 5	10,000	T	S	0	1	S	0	2	0	0	0	
6	D 0 2 6	10,000	T	S	0	1	S	0	2	0	0	0	
7	D 0 2 7	10,000	T	S	0	1	S	0	2	0	0	0	
8	D 0 2 8	10,000	T	S	0	1	S	0	2	0	0	0	
9	D 0 2 9	10,000	T	S	0	1	S	0	2	0	0	0	
10	D 0 3 0	10,000	T	S	0	1	S	0	2	0	0	0	
11	D 0 3 1	10,000	T	S	0	1	S	0	2	0	0	0	
12	D 0 3 2	10,000	T	S	0	1	S	0	2	0	0	0	
13	D 0 3 3	10,000	T	S	0	1	S	0	2	0	0	0	
14	D 0 3 4	10,000	T	S	0	1	S	0	2	0	0	0	
15	D 0 3 5	10,000	T	S	0	1	S	0	2	0	0	0	
16	D 0 3 6	10,000	T	S	0	1	S	0	2	0	0	0	
17	D 0 3 7	10,000	T	S	0	1	S	0	2	0	0	0	
18	D 0 3 8	10,000	T	S	0	1	S	0	2	0	0	0	
19	D 0 3 9	10,000	T	S	0	1	S	0	2	0	0	0	
20	D 0 4 0	10,000	T	S	0	1	S	0	2	0	0	0	
21	D 0 4 1	10,000	T	S	0	1	S	0	2	0	0	0	
22	D 0 4 2	10,000	T	S	0	1	S	0	2	0	0	0	
23	D 0 4 3	10,000	T	S	0	1	S	0	2	0	0	0	
24	K 0 4 4	10,000	T	S	0	1	S	0	2	0	0	0	DI - Included with above
25	D 0 0 2	10,000	T	S	0	1	T	0	4				
26	D 0 0 3	10,000	T	S	0	1	T	0	4				
27	D 0 0 4	10,000	T	S	0	1	T	0	4				
28	D 0 0 5	10,000	T	S	0	1	T	0	4				
29	D 0 0 6	10,000	T	S	0	1	T	0	4				
30	D 0 0 7	10,000	T	S	0	1	T	0	4				
31	D 0 0 8	10,000	T	S	0	1	T	0	4				
32	D 0 0 9	10,000	T	S	0	1	T	0	4				
33	D 0 1 0	10,000	T	S	0	1	T	0	4				

EPA ID. Number: 112 01 01 01 6 0 8 4 7 1 1

USE THIS FORM FOR ELITE TYPE 112 CRYSTALLINE OR MORE IN THE UNRECORDED AREA ONLY

112 01 01 01 01 6 0 8 4 7 1 1

USE THIS FORM FOR ELITE TYPE 112 CRYSTALLINE OR MORE IN THE UNRECORDED AREA ONLY

Line Number	A. EPA HAZARDOUS WASTE (see 40 CFR 300.106)				B. ESTIMATED QUANTITY OF WASTE (see 40 CFR 300.106)		C. TYPE OF MATERIAL (see 40 CFR 300.106)		(1) PROCESS CODES (see 40 CFR 300.106)				(2) PROCESS DESCRIPTION (if a code is not entered in (1))			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	K	0	0	4	10,000	-	S	0	1	S	0	2	0	0	0	
2	K	0	0	5	10,000	-	S	0	1	S	0	2	0	0	0	
3	K	0	0	6	10,000	-	S	0	1	S	0	2	0	0	0	
4	K	0	0	7	10,000	-	S	0	1	S	0	2	0	0	0	
5	K	0	0	8	10,000	-	S	0	1	S	0	2	0	0	0	
6	K	0	4	6	10,000	-	S	0	1	S	0	2	0	0	0	
7	K	0	5	2	10,000	-	S	0	1	S	0	2	0	0	0	
8	K	0	6	0	10,000	-	S	0	1	S	0	2	0	0	0	
9	K	0	6	1	10,000	-	S	0	1	S	0	2	0	0	0	
10	K	0	6	2	10,000	-	S	0	1	S	0	2	0	0	0	
11	K	0	6	9	10,000	-	S	0	1	S	0	2	0	0	0	
12	K	0	8	6	10,000	-	S	0	1	S	0	2	0	0	0	
13	K	0	8	7	10,000	-	S	0	1	S	0	2	0	0	0	
14	K	1	0	0	10,000	-	S	0	1	S	0	2	0	0	0	C1 - Included with above
15	D	0	0	2	10,000	-	S	0	1	S	0	2	0	0	0	
16	D	0	0	3	10,000	-	S	0	1	S	0	2	0	0	0	
17	D	0	0	4	10,000	-	S	0	1	S	0	2	0	0	0	
18	D	0	0	5	10,000	-	S	0	1	S	0	2	0	0	0	
19	D	0	0	6	10,000	-	S	0	1	S	0	2	0	0	0	
20	D	0	0	7	10,000	-	S	0	1	S	0	2	0	0	0	
21	D	0	0	8	10,000	-	S	0	1	S	0	2	0	0	0	
22	D	0	0	9	10,000	-	S	0	1	S	0	2	0	0	0	
23	D	0	1	0	10,000	-	S	0	1	S	0	2	0	0	0	
24	D	0	1	1	10,000	-	S	0	1	S	0	2	0	0	0	
25	D	0	1	2	10,000	-	S	0	1	S	0	2	0	0	0	
26	D	0	1	3	10,000	-	S	0	1	S	0	2	0	0	0	
27	D	0	1	4	10,000	-	S	0	1	S	0	2	0	0	0	
28	D	0	1	5	10,000	-	S	0	1	S	0	2	0	0	0	
29	D	0	1	6	10,000	-	S	0	1	S	0	2	0	0	0	
30	D	0	1	7	10,000	-	S	0	1	S	0	2	0	0	0	
31	D	0	1	8	10,000	-	S	0	1	S	0	2	0	0	0	
32	D	0	1	9	10,000	-	S	0	1	S	0	2	0	0	0	
33	D	0	2	0	10,000	-	S	0	1	S	0	2	0	0	0	



EPA Form 8700-23 (01-90) Page 6G

**FIELD NO.** \_\_\_\_\_

**SPRING 1992**

1	1	2	1	0	0	0	6	0	8	4	7	1
---	---	---	---	---	---	---	---	---	---	---	---	---

## Characteristics of Human Capital

A-EPA-22		HAZARDOUS WASTE		UNIT		T		S		O		I		T		O		4	
1	D	1	0	1	1	10,000	T	S	0	1	T	0	4						
2	D	1	0	1	2	10,000	T	S	0	1	T	0	4						
3	D	1	0	1	3	10,000	T	S	0	1	T	0	4						
4	D	1	0	1	4	10,000	T	S	0	1	T	0	4						
5	D	1	0	1	5	10,000	T	S	0	1	T	0	4						
6	D	1	0	1	6	10,000	T	S	0	1	T	0	4						
7	D	1	0	1	7	10,000	T	S	0	1	T	0	4						
8	D	1	0	1	8	10,000	T	S	0	1	T	0	4						
9	D	1	0	1	9	10,000	T	S	0	1	T	0	4						
10	D	1	0	2	0	10,000	T	S	0	1	T	0	4						
11	D	1	0	2	1	10,000	T	S	0	1	T	0	4						
12	D	1	0	2	2	10,000	T	S	0	1	T	0	4						
13	D	1	0	2	3	10,000	T	S	0	1	T	0	4						
14	D	1	0	2	4	10,000	T	S	0	1	T	0	4						
15	D	1	0	2	5	10,000	T	S	0	1	T	0	4						
16	D	1	0	2	6	10,000	T	S	0	1	T	0	4						
17	D	1	0	2	7	10,000	T	S	0	1	T	0	4						
18	D	1	0	2	8	10,000	T	S	0	1	T	0	4						
19	D	1	0	2	9	10,000	T	S	0	1	T	0	4						
20	D	1	0	3	0	10,000	T	S	0	1	T	0	4						
21	D	1	0	3	1	10,000	T	S	0	1	T	0	4						
22	D	1	0	3	2	10,000	T	S	0	1	T	0	4						
23	D	1	0	3	3	10,000	T	S	0	1	T	0	4						
24	D	1	0	3	4	10,000	T	S	0	1	T	0	4						
25	D	1	0	3	5	10,000	T	S	0	1	T	0	4						
26	D	1	0	3	6	10,000	T	S	0	1	T	0	4						
27	D	1	0	3	7	10,000	T	S	0	1	T	0	4						
28	D	1	0	3	8	10,000	T	S	0	1	T	0	4						
29	D	1	0	3	9	10,000	T	S	0	1	T	0	4						
30	D	1	0	4	0	10,000	T	S	0	1	T	0	4						
31	D	1	0	4	1	10,000	T	S	0	1	T	0	4						
32	D	1	0	4	2	10,000	T	S	0	1	T	0	4						
33	D	1	0	4	3	10,000	T	S	0	1	T	0	4						

EPA I.D. Number (continued from page 1)

Secondary ID Number (if not from page 1)

1 2 3 4 5 6 7 8 9 10 11 12

Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE CODE (enter code)		B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIFORM MEASURE (numeric code)	D. PROCESSES										
					(1) PROCESS CODES (numeric)					(2) PROCESS DESCRIPTION (if a code is not entered in (1))					
1	D	0	3	4	86,000	T	S	1	0	1	S	0	2		
2	D	0	3	5	86,000	T	S	1	0	1	S	0	2		
3	D	0	3	6	86,000	T	S	1	0	1	S	0	2		
4	D	0	3	7	86,000	T	S	1	0	1	S	0	2		
5	D	0	3	8	86,000	T	S	1	0	1	S	0	2		
6	D	0	3	9	86,000	T	S	1	0	1	S	0	2		
7	D	0	4	0	86,000	T	S	1	0	1	S	0	2		
8	D	0	4	1	86,000	T	S	1	0	1	S	0	2		
9	D	0	4	2	86,000	T	S	1	0	1	S	0	2		
10	D	0	4	3	86,000	T	S	1	0	1	S	0	2		
11	F	0	0	1	86,000	T	S	1	0	1	S	0	2		
12	F	0	0	2	86,000	T	S	1	0	1	S	0	2		
13	F	0	0	3	86,000	T	S	1	0	1	S	0	2		
14	F	0	0	4	86,000	T	S	1	0	1	S	0	2		
15	F	0	0	5	86,000	T	S	1	0	1	S	0	2		
16	F	0	0	6	86,000	T	S	1	0	1	S	0	2		
17	F	0	0	7	86,000	T	S	1	0	1	S	0	2		
18	F	0	0	8	86,000	T	S	1	0	1	S	0	2		
19	F	0	0	9	86,000	T	S	1	0	1	S	0	2		
20	F	0	1	0	86,000	T	S	1	0	1	S	0	2		
21	F	0	1	1	166,000	T	S	1	0	1	S	0	2		
22	F	0	1	2	86,000	T	S	1	0	1	S	0	2		
23	F	0	1	9	86,000	T	S	1	0	1	S	0	2		
24	F	0	2	0	86,000	T	S	1	0	1	S	0	2		
25	F	0	2	1	86,000	T	S	1	0	1	S	0	2		
26	F	0	2	2	86,000	T	S	1	0	1	S	0	2		
27	F	0	2	3	86,000	T	S	1	0	1	S	0	2		
28	F	0	2	4	86,000	T	S	1	0	1	S	0	2		
29	F	0	2	5	86,000	T	S	1	0	1	S	0	2		
30	F	0	2	6	86,000	T	S	1	0	1	S	0	2		
31	F	0	2	7	86,000	T	S	1	0	1	S	0	2		
32	F	0	2	8	86,000	T	S	1	0	1	S	0	2		
33	F	0	3	9	86,000	T	S	1	0	1	S	0	2		

Page 68

EPA I.D. Number (enter 8 digits)

Secondary ID Number (enter from page 1)

11 1 01 01 01 61 01 81 41 71 11

IV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered as D(1))
1	K 01 3 5	5,700	T	S1 01 1 S1 01 2	
2	K 01 3 6	5,700	T	S1 01 1 S1 01 2	
3	K 01 3 7	5,700	T	S1 01 1 S1 01 2	
4	K 01 3 8	5,700	T	S1 01 1 S1 01 2	
5	K 01 3 9	5,700	T	S1 01 1 S1 01 2	
6	K 01 4 0	5,700	T	S1 01 1 S1 01 2	
7	K 01 4 1	5,700	T	S1 01 1 S1 01 2	
8	K 01 4 2	5,700	T	S1 01 1 S1 01 2	
9	K 01 4 3	5,700	T	S1 01 1 S1 01 2	
10	K 01 4 4	5,700	T	S1 01 1 S1 01 2	
11	K 01 4 5	5,700	T	S1 01 1 S1 01 2	
12	K 01 4 6	5,700	T	S1 01 1 S1 01 2	
13	K 01 4 7	5,700	T	S1 01 1 S1 01 2	
14	K 01 4 8	5,700	T	S1 01 1 S1 01 2	
15	K 01 4 9	5,700	T	S1 01 1 S1 01 2	
16	K 01 5 0	5,700	T	S1 01 1 S1 01 2	
17	K 01 5 1	5,700	T	S1 01 1 S1 01 2	
18	K 01 5 2	5,700	T	S1 01 1 S1 01 2	
19	K 01 6 0	5,700	T	S1 01 1 S1 01 2	
20	K 01 6 1	5,700	T	S1 01 1 S1 01 2	
21	K 01 6 2	75,000	T	S1 01 1 S1 01 2	
22	K 01 6 9	5,700	T	S1 01 1 S1 01 2	
23	K 01 7 1	5,700	T	S1 01 1 S1 01 2	
24	K 01 7 3	5,700	T	S1 01 1 S1 01 2	
25	K 01 8 2	5,700	T	S1 01 1 S1 01 2	
26	K 01 9 4	5,700	T	S1 01 1 S1 01 2	
27	K 01 9 5	5,700	T	S1 01 1 S1 01 2	
28	K 01 9 6	156,000	T	S1 01 1 S1 01 2	
29	K 01 9 7	5,700	T	S1 01 1 S1 01 2	
30	K 01 9 8	5,700	T	S1 01 1 S1 01 2	
31	K 01 9 4	5,700	T	S1 01 1 S1 01 2	
32	K 01 9 5	5,700	T	S1 01 1 S1 01 2	
33	K 01 9 6	5,700	T	S1 01 1 S1 01 2	

See page 10 Number (enter from page 1) --

[illegible][illegible]

Line Number	A. EPA HAZARDOUS WASTE NO. (one process)	B. ESTIMATED QUANTITY OF WASTE	C. LINE OF MATERIAL MEASURE (one code)	D. PROCESSES	
				(1) PROCESS CODES (one)	(2) PROCESS DESCRIPTIONS (if a code is not entered in D(1))
1	K 0 0 1	5,700	T	S 0 1 S 0 2	
2	K 0 0 2	5,700	T	S 0 1 S 0 2	
3	K 0 0 3	5,700	T	S 0 1 S 0 2	
4	K 0 0 4	5,700	T	S 0 1 S 0 2	
5	K 0 0 5	5,700	T	S 0 1 S 0 2	
6	K 0 0 6	5,700	T	S 0 1 S 0 2	
7	K 0 0 7	5,700	T	S 0 1 S 0 2	
8	K 0 0 8	5,700	T	S 0 1 S 0 2	
9	K 0 0 9	5,700	T	S 0 1 S 0 2	
10	K 0 1 0	5,700	T	S 0 1 S 0 2	
11	K 0 1 1	5,700	T	S 0 1 S 0 2	
12	K 0 1 3	5,700	T	S 0 1 S 0 2	
13	K 0 1 4	5,700	T	S 0 1 S 0 2	
14	K 0 1 5	5,700	T	S 0 1 S 0 2	
15	K 0 1 6	5,700	T	S 0 1 S 0 2	
16	K 0 1 7	5,700	T	S 0 1 S 0 2	
17	K 0 1 8	5,700	T	S 0 1 S 0 2	
18	K 0 1 9	5,700	T	S 0 1 S 0 2	
19	K 0 2 0	5,700	T	S 0 1 S 0 2	
20	K 0 2 1	5,700	T	S 0 1 S 0 2	
21	K 0 2 2	5,700	T	S 0 1 S 0 2	
22	K 0 2 3	5,700	T	S 0 1 S 0 2	
23	K 0 2 4	5,700	T	S 0 1 S 0 2	
24	K 0 2 5	5,700	T	S 0 1 S 0 2	
25	K 0 2 6	5,700	T	S 0 1 S 0 2	
26	K 0 2 7	5,700	T	S 0 1 S 0 2	
27	K 0 2 8	5,700	T	S 0 1 S 0 2	
28	K 0 2 9	5,700	T	S 0 1 S 0 2	
29	K 0 3 0	5,700	T	S 0 1 S 0 2	
30	K 0 3 1	5,700	T	S 0 1 S 0 2	
31	K 0 3 2	5,700	T	S 0 1 S 0 2	
32	K 0 3 3	5,700	T	S 0 1 S 0 2	
33	K 0 3 4	5,700	T	S 0 1 S 0 2	

Secondary ID Number (enter from page 1)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

► **THE FUTURE OF THE FIRM** The firm's future is bright. The company's revenue is projected to grow by 10% in 2010, and by 15% in 2011. The company's profit is projected to grow by 12% in 2010, and by 18% in 2011. The company's market share is projected to grow by 5% in 2010, and by 8% in 2011. The company's customer base is projected to grow by 10% in 2010, and by 15% in 2011. The company's employee base is projected to grow by 10% in 2010, and by 15% in 2011. The company's stock price is projected to grow by 10% in 2010, and by 15% in 2011. The company's overall performance is projected to be strong in 2010 and 2011.

Line Number	A. EPA HAZARDOUS WASTE NO. (error code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (error code)	D. PROCESSES	
				(1) PROCESS CODES (error)	(2) PROCESS DESC. (If a code is not entered, enter D/T)
1	U 0 1 1	5,000	T	S 1 0 1 1 S 1 0 1 2	
2	U 0 1 2	69,000	T	S 1 0 1 1 S 1 0 1 2	
3	U 0 1 4	69,000	T	S 1 0 1 1 S 1 0 1 2	
4	U 0 1 5	69,000	T	S 1 0 1 1 S 1 0 1 2	
5	U 0 1 6	69,000	T	S 1 0 1 1 S 1 0 1 2	
6	U 0 1 7	5,000	T	S 1 0 1 1 S 1 0 1 2	
7	U 0 1 8	5,000	T	S 1 0 1 1 S 1 0 1 2	
8	" 0 1 9	69,000	T	S 1 0 1 1 S 1 0 1 2	
9	" 0 2 0	69,000	T	S 1 0 1 1 S 1 0 1 2	
10	" 0 2 1	69,000	T	S 1 0 1 1 S 1 0 1 2	
11	" 0 2 2	69,000	T	S 1 0 1 1 S 1 0 1 2	
12	" 0 2 3	69,000	T	S 1 0 1 1 S 1 0 1 2	
13	" 0 2 4	5,000	T	S 1 0 1 1 S 1 0 1 2	
14	U 0 2 5	5,000	T	S 1 0 1 1 S 1 0 1 2	
15	U 0 2 6	5,000	T	S 1 0 1 1 S 1 0 1 2	
16	U 0 2 7	5,000	T	S 1 0 1 1 S 1 0 1 2	
17	" 0 2 8	5,000	T	S 1 0 1 1 S 1 0 1 2	
18	U 0 2 9	5,000	T	S 1 0 1 1 S 1 0 1 2	
19	U 0 3 0	5,000	T	S 1 0 1 1 S 1 0 1 2	
20	U 0 3 1	69,000	T	S 1 0 1 1 S 1 0 1 2	
21	U 0 3 2	69,000	T	S 1 0 1 1 S 1 0 1 2	
22	U 0 3 3	5,000	T	S 1 0 1 1 S 1 0 1 2	
23	U 0 3 4	5,000	T	S 1 0 1 1 S 1 0 1 2	
24	U 0 3 5	5,000	T	S 1 0 1 1 S 1 0 1 2	
25	U 0 3 6	5,000	T	S 1 0 1 1 S 1 0 1 2	
26	U 0 3 7	69,000	T	S 1 0 1 1 S 1 0 1 2	
27	U 0 3 8	5,000	T	S 1 0 1 1 S 1 0 1 2	
28	" 0 3 9	5,000	T	S 1 0 1 1 S 1 0 1 2	
29	" 0 4 1	5,000	T	S 1 0 1 1 S 1 0 1 2	
30	" 0 4 2	5,000	T	S 1 0 1 1 S 1 0 1 2	
31	" 0 4 3	5,000	T	S 1 0 1 1 S 1 0 1 2	
32	" 0 4 4	69,000	T	S 1 0 1 1 S 1 0 1 2	
33	" 0 4 5	5,000	T	S 1 0 1 1 S 1 0 1 2	

EPA ID Number (enter on page 1)

Secondary ID Number (enter from page 1)

1 1 D 1 0 1 0 1 6 0 8 4 7

XIV Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED AMOUNT OR QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					
				(1) PROCESS CODES (enter)			(2) PROCESS DESCRIPTIONS (if a code is not entered in D(1))		
1	K 0 9 7	5,700	T	S 0 1	S 0 2				
2	K 0 9 8	5,700	T	S 0 1	S 0 2				
3	K 0 9 9	5,700	T	S 0 1	S 0 2				
4	K 1 0 0	5,700	T	S 0 1	S 0 2				
5	K 1 0 1	5,700	T	S 0 1	S 0 2				
6	K 1 0 2	5,700	T	S 0 1	S 0 2				
7	K 1 0 3	5,700	T	S 0 1	S 0 2				
8	K 1 0 4	5,700	T	S 0 1	S 0 2				
9	K 1 0 5	5,700	T	S 0 1	S 0 2				
10	K 1 0 6	5,700	T	S 0 1	S 0 2				
11	K 1 1 1	5,700	T	S 0 1	S 0 2				
12	K 1 1 2	5,700	T	S 0 1	S 0 2				
13	K 1 1 3	5,700	T	S 0 1	S 0 2				
14	K 1 1 4	5,700	T	S 0 1	S 0 2				
15	K 1 1 5	5,700	T	S 0 1	S 0 2				
16	K 1 1 6	5,700	T	S 0 1	S 0 2				
17	K 1 1 7	5,700	T	S 0 1	S 0 2				
18	K 1 1 8	5,700	T	S 0 1	S 0 2				
19	K 1 2 3	5,700	T	S 0 1	S 0 2				
20	K 1 2 4	5,700	T	S 0 1	S 0 2				
21	K 1 2 5	5,700	T	S 0 1	S 0 2				
22	K 1 2 6	5,700	T	S 0 1	S 0 2				
23	K 1 2 6	5,700	T	S 0 1	S 0 2				
24	U 0 0 1	69,000	T	S 0 1	S 0 2				
25	U 0 0 2	69,000	T	S 0 1	S 0 2				
26	U 0 0 3	69,000	T	S 0 1	S 0 2				
27	U 0 0 4	69,000	T	S 0 1	S 0 2				
28	U 0 0 5	5,000	T	S 0 1	S 0 2				
29	U 0 0 6	69,000	T	S 0 1	S 0 2				
30	U 0 0 7	69,000	T	S 0 1	S 0 2				
31	U 0 0 8	69,000	T	S 0 1	S 0 2				
32	U 0 0 9	69,000	T	S 0 1	S 0 2				
33	U 0 1 0	5,000	T	S 0 1	S 0 2				



EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

01 01 01 01 61 01 81 41 71 11

Description of Hazardous Waste (continued)

Line Number	A. EPA- HAZARDOUS WASTE NO. (enter code)	B. ESTIMATE ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODE (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 8 1	5,000	T	S 0 1 S 0 2	
2	U 0 8 2	5,000	T	S 0 1 S 0 2	
3	U 0 8 3	5,000	T	S 0 1 S 0 2	
4	U 0 8 4	5,000	T	S 0 1 S 0 2	
5	U 0 8 5	5,000	T	S 0 1 S 0 2	
6	U 0 8 5	5,000	T	S 0 1 S 0 2	
7	U 0 8 7	5,000	T	S 0 1 S 0 2	
8	U 0 8 8	69,000	T	S 0 1 S 0 2	
9	U 0 9 9	5,000	T	S 0 1 S 0 2	
10	U 0 9 0	5,000	T	S 0 1 S 0 2	
	U 0 9 1	5,000	T	S 0 1 S 0 2	
2	U 0 9 2	69,000	T	S 0 1 S 0 2	
13	U 0 9 3	5,000	T	S 0 1 S 0 2	
	U 0 9 4	5,000	T	S 0 1 S 0 2	
15	U 0 9 5	5,000	T	S 0 1 S 0 2	
16	U 0 9 6	5,000	T	S 0 1 S 0 2	
17	U 0 9 7	5,000	T	S 0 1 S 0 2	
18	U 0 9 8	5,000	T	S 0 1 S 0 2	
19	U 0 9 9	5,000	T	S 0 1 S 0 2	
20	U 1 0 1	5,000	T	S 0 1 S 0 2	
21	U 1 0 2	5,000	T	S 0 1 S 0 2	
22	U 1 0 3	5,000	T	S 0 1 S 0 2	
23	U 1 0 5	5,000	T	S 0 1 S 0 2	
24	U 1 0 5	5,000	T	S 0 1 S 0 2	
25	U 1 0 7	5,000	T	S 0 1 S 0 2	
26	U 1 0 8	5,000	T	S 0 1 S 0 2	
27	U 1 0 9	5,000	T	S 0 1 S 0 2	
28	U 1 0 9	5,000	T	S 0 1 S 0 2	
9	U 1 1 1	5,000	T	S 0 1 S 0 2	
30	U 1 1 2	5,000	T	S 0 1 S 0 2	
31	U 1 1 3	5,000	T	S 0 1 S 0 2	
32	U 1 1 4	5,000	T	S 0 1 S 0 2	
33	U 1 1 5	5,000	T	S 0 1 S 0 2	

EPA I.D. Number (continued)

Secondary Number (from report)

01 01 01 01 61 01 81 41 71 11

XTC Description of Material (continued)

Line Number	A. EPA HAZARDOUS WASTE CODE (eight digits)	B. EXTENSION CODE (three digits)	C. LINE OF ACTION CODE (three digits)	D. PROCESSES	
				(1) PROCESS CODE (four digits)	(2) PROCESS DESCRIPTION (if a code is not entered in (1))
1	U 0 1 4 6	5.000	T	S 0 1 S 0 2	
2	U 0 1 4 7	5.000	T	S 0 1 S 0 2	
3	U 0 1 4 8	5.000	T	S 0 1 S 0 2	
4	U 0 1 4 9	5.000	T	S 0 1 S 0 2	
5	U 0 1 5 0	5.000	T	S 0 1 S 0 2	
6	U 0 1 5 1	69.000	T	S 0 1 S 0 2	
7	U 0 1 5 2	69.000	T	S 0 1 S 0 2	
8	U 0 1 5 3	69.000	T	S 0 1 S 0 2	
9	U 0 1 5 5	69.000	T	S 0 1 S 0 2	
10	U 0 1 5 6	69.000	T	S 0 1 S 0 2	
11	U 0 1 5 7	69.000	T	S 0 1 S 0 2	
12	U 0 1 5 8	5.000	T	S 0 1 S 0 2	
13	U 0 1 5 9	5.000	T	S 0 1 S 0 2	
14	U 0 1 6 0	5.000	T	S 0 1 S 0 2	
15	U 0 1 6 1	5.000	T	S 0 1 S 0 2	
16	U 0 1 6 2	5.000	T	S 0 1 S 0 2	
17	U 0 1 6 3	5.000	T	S 0 1 S 0 2	
18	U 0 1 6 4	5.000	T	S 0 1 S 0 2	
19	U 0 1 6 6	5.000	T	S 0 1 S 0 2	
20	U 0 1 6 7	5.000	T	S 0 1 S 0 2	
21	U 0 1 6 8	5.000	T	S 0 1 S 0 2	
22	U 0 1 6 9	69.000	T	S 0 1 S 0 2	
23	U 0 1 7 0	69.000	T	S 0 1 S 0 2	
24	U 0 1 7 1	5.000	T	S 0 1 S 0 2	
25	U 0 1 7 2	5.000	T	S 0 1 S 0 2	
26	U 0 1 7 3	5.000	T	S 0 1 S 0 2	
27	U 0 1 7 4	5.000	T	S 0 1 S 0 2	
28	U 0 1 7 5	5.000	T	S 0 1 S 0 2	
29	U 0 1 7 6	5.000	T	S 0 1 S 0 2	
30	U 0 1 7 7	5.000	T	S 0 1 S 0 2	
31	U 0 1 7 8	5.000	T	S 0 1 S 0 2	
32	U 0 1 7 9	5.000	T	S 0 1 S 0 2	
33	U 0 1 8 0	5.000	T	S 0 1 S 0 2	

EPA I.D. Number (continued from page 1)

Secondary ID Number (enter from page 1)

01 01 01 01 6 0 8 4 7 1

IV. Description of Hazardous Wastes (continued)

Line Number	A. EPA- HAZARDOUS WASTE NO. (order code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (order code)	D. PROCESSES				OPTION -4 in D(1)
				(1) PROCESS CODES (enter)				
1	U 1 5 0	5,000	T	S 0 1 1	S 0 1 2			
2	U 1 5 1	5,000	T	S 0 1 1	S 0 1 2			
3	U 1 5 2	5,000	T	S 0 1 1	S 0 1 2			
4	U 1 5 3	5,000	T	S 0 1 1	S 0 1 2			
5	U 1 5 4	69,000	T	S 0 1 1	S 0 1 2			
6	U 1 5 5	5,000	T	S 0 1 1	S 0 1 2			
7	U 1 5 6	5,000	T	S 0 1 1	S 0 1 2			
8	U 1 5 7	5,000	T	S 0 1 1	S 0 1 2			
9	U 1 5 8	5,000	T	S 0 1 1	S 0 1 2			
10	U 1 5 9	69,000	T	S 0 1 1	S 0 1 2			
11	U 1 6 0	5,000	T	S 0 1 1	S 0 1 2			
12	U 1 6 1	69,000	T	S 0 1 1	S 0 1 2			
13	U 1 6 2	69,000	T	S 0 1 1	S 0 1 2			
14	U 1 6 3	5,000	T	S 0 1 1	S 0 1 2			
15	U 1 6 4	5,000	T	S 0 1 1	S 0 1 2			
16	U 1 6 5	69,000	T	S 0 1 1	S 0 1 2			
17	U 1 6 6	5,000	T	S 0 1 1	S 0 1 2			
18	U 1 6 7	5,000	T	S 0 1 1	S 0 1 2			
19	U 1 6 8	5,000	T	S 0 1 1	S 0 1 2			
20	U 1 6 9	69,000	T	S 0 1 1	S 0 1 2			
21	U 1 7 0	5,000	T	S 0 1 1	S 0 1 2			
22	U 1 7 1	5,000	T	S 0 1 1	S 0 1 2			
23	U 1 7 2	5,000	T	S 0 1 1	S 0 1 2			
24	U 1 7 3	5,000	T	S 0 1 1	S 0 1 2			
25	U 1 7 4	5,000	T	S 0 1 1	S 0 1 2			
26	U 1 7 6	5,000	T	S 0 1 1	S 0 1 2			
27	U 1 7 7	5,000	T	S 0 1 1	S 0 1 2			
28	U 1 7 8	5,000	T	S 0 1 1	S 0 1 2			
29	U 1 7 9	5,000	T	S 0 1 1	S 0 1 2			
30	U 1 8 0	5,000	T	S 0 1 1	S 0 1 2			
31	U 1 8 1	5,000	T	S 0 1 1	S 0 1 2			
32	U 1 8 2	5,000	T	S 0 1 1	S 0 1 2			
33	U 1 8 3	5,000	T	S 0 1 1	S 0 1 2			

EPA ID. NUMBER: 112-01-01-01-61-01-81-41-71-11

USE OF THIS FORM WITH ELITE 112 PROCESSOR IS NOT RECOMMENDED IN THE UNITED STATES OF AMERICA

USE OF THIS FORM WITH ELITE 112 PROCESSOR IS NOT RECOMMENDED IN THE UNITED STATES OF AMERICA

Line Number	A. EPA HAZARDOUS WASTE CODE (see table)			B. ESTIMATED QUANTITY OF WASTE (see table)			C. PROCESS CODES (see table)			D. PROCESS DESCRIPTION (if a code is not entered in C, use "D")		
	1	2	3	4	5	6	7	8	9	10	11	12
1	U	1	1	6	5,000	T	S	0	1	S	0	2
2	U	1	1	7	69,000	T	S	0	1	S	0	2
3	U	1	1	8	5,000	T	S	0	1	S	0	2
4	U	1	1	9	5,000	T	S	0	1	S	0	2
5	U	1	2	0	5,000	T	S	0	1	S	0	2
6	U	1	2	1	5,000	T	S	0	1	S	0	2
7	U	1	2	2	5,000	T	S	0	1	S	0	2
8	U	1	2	3	5,000	T	S	0	1	S	0	2
9	U	1	2	4	5,000	T	S	0	1	S	0	2
10	U	1	2	5	5,000	T	S	0	1	S	0	2
11	U	1	2	6	5,000	T	S	0	1	S	0	2
12	U	1	2	7	5,000	T	S	0	1	S	0	2
13	U	1	2	8	5,000	T	S	0	1	S	0	2
14	U	1	2	9	5,000	T	S	0	1	S	0	2
15	U	1	3	0	5,000	T	S	0	1	S	0	2
16	U	1	3	1	5,000	T	S	0	1	S	0	2
17	U	1	3	2	5,000	T	S	0	1	S	0	2
18	U	1	3	3	5,000	T	S	0	1	S	0	2
19	U	1	3	4	5,000	T	S	0	1	S	0	2
20	U	1	3	5	5,000	T	S	0	1	S	0	2
21	U	1	3	6	5,000	T	S	0	1	S	0	2
22	U	1	3	7	5,000	T	S	0	1	S	0	2
23	U	1	3	8	5,000	T	S	0	1	S	0	2
24	U	1	4	0	69,000	T	S	0	1	S	0	2
25	U	1	4	1	5,000	T	S	0	1	S	0	2
26	U	1	4	2	5,000	T	S	0	1	S	0	2
27	U	1	4	3	5,000	T	S	0	1	S	0	2
28	U	1	4	4	5,000	T	S	0	1	S	0	2
29	U	1	4	5	5,000	T	S	0	1	S	0	2
30	U	1	4	6	5,000	T	S	0	1	S	0	2
31	U	1	4	7	5,000	T	S	0	1	S	0	2
32	U	1	4	8	5,000	T	S	0	1	S	0	2
33	U	1	4	9	5,000	T	S	0	1	S	0	2

EPA I.D. Number (enter from report)

Secondary ID Number (enter from report)

1 1 0 1 0 1 0 1 6 1 0 1 8 1 4 1 7 1 1

Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NOS. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
	(1) PROCESS CODES (enter)						(2) PROCESS DESCRIPTION (If a code is not entered in (1))							
1	U	2	2	1	5,000	T	S	0	1	S	0	2		
2	U	2	2	2	5,000	T	S	0	1	S	0	2		
3	U	2	2	3	69,000	-	S	0	1	S	0	2		
4	U	2	2	5	5,000	T	S	0	1	S	0	2		
5	U	2	2	6	86,000	T	S	0	1	S	0	2		
6	U	2	2	7	5,000	T	S	0	1	S	0	2		
7	U	2	2	8	86,000	T	S	0	1	S	0	2		
8	U	2	3	4	5,000	T	S	0	1	S	0	2		
9	U	2	3	5	5,000	T	S	0	1	S	0	2		
10	U	2	3	6	5,000	T	S	0	1	S	0	2		
11	U	2	3	7	5,000	T	S	0	1	S	0	2		
12	U	2	3	8	69,000	T	S	0	1	S	0	2		
13	U	2	3	9	69,000	T	S	0	1	S	0	2		
14	U	2	4	0	5,000	T	S	0	1	S	0	2		
15	U	2	4	3	5,000	T	S	0	1	S	0	2		
16	U	2	4	4	5,000	T	S	0	1	S	0	2		
17	U	2	4	6	5,000	T	S	0	1	S	0	2		
18	U	2	4	7	5,000	T	S	0	1	S	0	2		
19	U	2	4	8	5,000	T	S	0	1	S	0	2		
20	U	2	4	9	5,000	T	S	0	1	S	0	2		
21	U	3	2	8	5,000	-	S	0	1	S	0	2		
22	U	3	5	3	5,000	T	S	0	1	S	0	2		
23	U	3	5	9	5,000	T	S	0	1	S	0	2		
24	P	0	0	1	5,000	-	S	0	1	S	0	2		
25	P	0	0	2	5,000	-	S	0	1	S	0	2		
26	P	0	0	3	5,000	-	S	0	1	S	0	2		
27	P	0	0	4	5,000	-	S	0	1	S	0	2		
28	P	0	0	5	5,000	-	S	0	1	S	0	2		
29	P	0	0	6	5,000	T	S	0	1	S	0	2		
30	P	0	0	7	5,000	T	S	0	1	S	0	2		
31	P	0	0	8	5,000	T	S	0	1	S	0	2		
32	P	0	0	9	5,000	-	S	0	1	S	0	2		
33	P	0	1	0	69,000	-	S	0	1	S	0	2		

**12. Summary of Number of Test Runs:**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

22-00000

Line Number	A. EPA HAZARDOUS WASTE CODE (see appendix)	B. ESTIMATED QUANTITY OF WASTE	C. UNIFORM HAZARDOUS WASTE MEASUREMENT (see appendix)	D. PROCESS	
				(1) PROCESS CODE (see appendix)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1) 2)
1	U 1 8 4	5,000	T	S 0 1 S 0 2	
2	U 1 8 5	5,000	T	S 0 1 S 0 2	
3	U 1 8 6	5,000	T	S 0 1 S 0 2	
4	U 1 8 7	5,000	T	S 0 1 S 0 2	
5	U 1 8 8	69,000	T	S 0 1 S 0 2	
6	U 1 8 9	5,000	T	S 0 1 S 0 2	
7	U 1 9 0	5,000	T	S 0 1 S 0 2	
8	U 1 9 1	5,000	T	S 0 1 S 0 2	
9	U 1 9 2	5,000	T	S 0 1 S 0 2	
10	U 1 9 3	5,000	T	S 0 1 S 0 2	
11	U 1 9 4	5,000	T	S 0 1 S 0 2	
12	U 1 9 6	69,000	T	S 0 1 S 0 2	
13	U 1 9 7	5,000	T	S 0 1 S 0 2	
14	U 2 0 0	5,000	T	S 0 1 S 0 2	
15	U 2 0 1	5,000	T	S 0 1 S 0 2	
16	U 2 0 2	5,000	T	S 0 1 S 0 2	
17	U 2 0 3	5,000	T	S 0 1 S 0 2	
18	U 2 0 4	5,000	T	S 0 1 S 0 2	
19	U 2 0 5	5,000	T	S 0 1 S 0 2	
20	U 2 0 6	5,000	T	S 0 1 S 0 2	
21	U 2 0 7	5,000	T	S 0 1 S 0 2	
22	U 2 0 8	5,000	T	S 0 1 S 0 2	
23	U 2 0 9	5,000	T	S 0 1 S 0 2	
24	U 2 1 0	86,000	T	S 0 1 S 0 2	
25	U 2 1 1	5,000	T	S 0 1 S 0 2	
26	U 2 1 3	69,000	T	S 0 1 S 0 2	
27	U 2 1 4	5,000	T	S 0 1 S 0 2	
28	U 2 1 5	5,000	T	S 0 1 S 0 2	
29	U 2 1 6	5,000	T	S 0 1 S 0 2	
30	U 2 1 7	5,000	T	S 0 1 S 0 2	
31	U 2 1 8	5,000	T	S 0 1 S 0 2	
32	U 2 1 9	5,000	T	S 0 1 S 0 2	
33	U 2 2 0	69,000	T	S 0 1 S 0 2	

EPA I.D. Number (enter from report)

Secondary ID Number (enter from report)

1 1 0 1 0 1 0 6 0 8 4 7 1

Description of Hazardous Waste (continued)

Line Number	A. EPA- HAZARDOUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIFORM MEASURE (enter code)	D. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered, use D(1))
	(1) PROCESS CODE (enter)																
1	P	0	4	8	5,000	T	S	0	1	S	0	2					
2	P	0	4	9	5,000	T	S	0	1	S	0	2					
3	P	0	5	0	5,000	T	S	0	1	S	0	2					
4	P	0	5	1	5,000	T	S	0	1	S	0	2					
5	P	0	5	4	5,000	T	S	0	1	S	0	2					
6	P	0	5	6	5,000	T	S	0	1	S	0	2					
7	P	0	5	7	5,000	T	S	0	1	S	0	2					
8	P	0	5	8	5,000	T	S	0	1	S	0	2					
9	P	0	5	9	5,000	T	S	0	1	S	0	2					
10	P	0	6	0	5,000	T	S	0	1	S	0	2					
11	P	0	6	2	5,000	T	S	0	1	S	0	2					
12	P	0	6	3	5,000	T	S	0	1	S	0	2					
13	P	0	6	4	5,000	T	S	0	1	S	0	2					
14	P	0	6	5	5,000	T	S	0	1	S	0	2					
15	P	0	6	6	5,000	T	S	0	1	S	0	2					
16	P	0	6	7	5,000	T	S	0	1	S	0	2					
17	P	0	6	8	5,000	T	S	0	1	S	0	2					
18	P	0	6	9	5,000	T	S	0	1	S	0	2					
19	P	0	7	0	5,000	T	S	0	1	S	0	2					
20	P	0	7	1	5,000	T	S	0	1	S	0	2					
21	P	0	7	2	5,000	T	S	0	1	S	0	2					
22	P	0	7	3	5,000	T	S	0	1	S	0	2					
23	P	0	7	4	59,000	T	S	0	1	S	0	2					
24	P	0	7	5	59,000	T	S	0	1	S	0	2					
25	P	0	7	6	59,000	T	S	0	1	S	0	2					
26	P	0	7	7	5,000	T	S	0	1	S	0	2					
27	P	0	7	8	5,000	T	S	0	1	S	0	2					
28	P	0	8	1	5,000	T	S	0	1	S	0	2					
29	P	0	8	2	5,000	T	S	0	1	S	0	2					
30	P	0	8	4	5,000	T	S	0	1	S	0	2					
31	P	0	8	5	5,000	T	S	0	1	S	0	2					
32	P	0	8	7	5,000	T	S	0	1	S	0	2					
33	P	0	8	8	5,000	T	S	0	1	S	0	2					

EPA ID. Number: 01 01 01 6 0 8 4 7 11

Summary of Hazardous Waste Disposal

XIV. Description of Hazardous Waste (Continued)

Line Number	A. EPA HAZARDOUS WASTE CODE (origin code)				B. ESTIMATED AMOUNT OF WASTE	C. UNIFORM TREATMENT CODE (number code)	D. PROCESSES		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
							(1) PROCESS CODE (number)			
1	P	0	1	1	5,000	T	S	0 1	S 0 2	
2	P	0	1	2	5,000	T	S	0 1	S 0 2	
3	P	0	1	3	5,000	T	S	0 1	S 0 2	
4	P	0	1	4	5,000	T	S	0 1	S 0 2	
5	P	0	1	5	5,000	T	S	0 1	S 0 2	
6	P	0	1	6	5,000	T	S	0 1	S 0 2	
7	P	0	1	7	5,000	T	S	0 1	S 0 2	
8	P	0	1	8	5,000	T	S	0 1	S 0 2	
9	P	0	2	0	5,000	T	S	0 1	S 0 2	
10	P	0	2	1	69,000	T	S	0 1	S 0 2	
11	P	0	2	2	5,000	T	S	0 1	S 0 2	
12	P	0	2	3	5,000	T	S	0 1	S 0 2	
13	P	0	2	4	5,000	T	S	0 1	S 0 2	
14	P	0	2	5	5,000	T	S	0 1	S 0 2	
15	P	0	2	6	5,000	T	S	0 1	S 0 2	
16	P	0	2	7	5,000	T	S	0 1	S 0 2	
17	P	0	2	8	5,000	T	S	0 1	S 0 2	
18	P	0	2	9	69,000	T	S	0 1	S 0 2	
19	P	0	3	0	69,000	T	S	0 1	S 0 2	
20	P	0	3	1	5,000	T	S	0 1	S 0 2	
21	P	0	3	3	5,000	T	S	0 1	S 0 2	
22	P	0	3	4	5,000	T	S	0 1	S 0 2	
23	P	0	3	6	5,000	T	S	0 1	S 0 2	
24	P	0	3	7	5,000	T	S	0 1	S 0 2	
25	P	0	3	8	5,000	T	S	0 1	S 0 2	
26	P	0	3	9	5,000	T	S	0 1	S 0 2	
27	P	0	4	0	5,000	T	S	0 1	S 0 2	
28	P	0	4	1	5,000	T	S	0 1	S 0 2	
29	P	0	4	2	5,000	T	S	0 1	S 0 2	
30	P	0	4	3	5,000	T	S	0 1	S 0 2	
31	P	0	4	4	5,000	T	S	0 1	S 0 2	
32	P	0	4	5	5,000	T	S	0 1	S 0 2	
33	P	0	4	6	5,000	T	S	0 1	S 0 2	
34	P	0	4	7	5,000	T	S	0 1	S 0 2	



Page 6W

**SAVING THE BROTHERS FROM FURTHER TORTURE 12**

[illegible]

## XIV. Description of the [redacted]

U.S. Form 8700-23 (01-90)

EPA ID Number (from page 1)

Secondary ID Number (from page 1)

0 0 0 0 6 0 8 4 7 1

Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (see code)	B. ESTIMATED QUANTITY OF WASTE	C. HAZARDOUS CHARACTERISTICS (see code)	(1) PROCESS CODES (see code)	(2) PROCESS DESCRIPTIONS (if a code not entered in (1))
1-1	F 0 1 0	10.000	T	T 0 4	F1
1-2	F 0 1 1	10.000	T	T 0 4	F1
1-3	F 0 1 2	10.000	T	T 0 4	F1
1-4	F 0 1 9	10.000	T	T 0 4	F1
1-5	F 0 2 0	10.000	T	T 0 4	F1
1-6	F 0 2 1	10.000	T	T 0 4	F1
1-7	F 0 2 2	10.000	T	T 0 4	F1
1-8	F 0 2 3	10.000	T	T 0 4	F1
1-9	F 0 2 4	10.000	T	T 0 4	F1
1-10	F 0 2 5	10.000	T	T 0 4	F1
1-11	F 0 2 6	10.000	T	T 0 4	F1
1-12	F 0 2 7	10.000	T	T 0 4	F1
1-13	F 0 2 8	10.000	T	T 0 4	F1
1-14	F 0 3 9	10.000	T	T 0 4	F1
2-1	K 0 0 1	10.000	T	T 0 4	F1
2-2	K 0 0 2	10.000	T	T 0 4	F1
2-3	K 0 0 3	10.000	T	T 0 4	F1
2-4	K 0 0 4	10.000	T	T 0 4	F1
2-5	K 0 0 5	10.000	T	T 0 4	F1
2-6	K 0 0 6	10.000	T	T 0 4	F1
2-7	K 0 0 7	10.000	T	T 0 4	F1
2-8	K 0 0 8	10.000	T	T 0 4	F1
2-9	K 0 0 9	10.000	T	T 0 4	F1
2-10	K 0 1 0	10.000	T	T 0 4	F1
2-11	K 0 1 1	10.000	T	T 0 4	F1
2-12	K 0 1 3	10.000	T	T 0 4	F1
2-13	K 0 1 4	10.000	T	T 0 4	F1
2-14	K 0 1 5	10.000	T	T 0 4	F1
2-15	K 0 1 6	10.000	T	T 0 4	F1
3-1	K 0 1 7	10.000	T	T 0 4	F1
3-2	K 0 1 8	10.000	T	T 0 4	F1
3-3	K 0 1 9	10.000	T	T 0 4	F1
3-4	K 0 2 10	10.000	T	T 0 4	F1

EPA Form 8700-23 (01-90)											
Schedule of Hazardous Waste											
I L D 0 0 0 6 0 8 4 7 1											
X Description of Hazardous Waste											
Line Number	HAZARDOUS WASTE CODE (6 characters)	AMOUNT OF WASTE	UNIT OF MEASURE	DATE OF GENERATION	DATE OF TREATMENT	DATE OF STORAGE	DATE OF DISPOSAL	DATE OF RECOVERY	DATE OF REUSE	DATE OF RECYCLING	DATE OF OTHER USE
1	D 0 2 0	10,000	T	T 0 4							F1
2	D 0 2 1	10,000	T	T 0 4							F1
3	D 0 2 2	10,000	T	T 0 4							F1
4	D 0 2 3	10,000	T	T 0 4							F1
5	D 0 2 4	10,000	T	T 0 4							F1
6	D 0 2 5	10,000	T	T 0 4							F1
7	D 0 2 6	10,000	T	T 0 4							F1
8	D 0 2 7	10,000	T	T 0 4							F1
9	D 0 2 8	10,000	T	T 0 4							F1
10	D 0 2 9	10,000	T	T 0 4							F1
11	D 0 3 0	10,000	T	T 0 4							F1
12	D 0 3 1	10,000	T	T 0 4							F1
13	D 0 3 2	10,000	T	T 0 4							F1
14	D 0 3 3	10,000	T	T 0 4							F1
15	D 0 3 4	10,000	T	T 0 4							F1
16	D 0 3 5	10,000	T	T 0 4							F1
17	D 0 3 6	10,000	T	T 0 4							F1
18	D 0 3 7	10,000	T	T 0 4							F1
19	D 0 3 8	10,000	T	T 0 4							F1
20	D 0 3 9	10,000	T	T 0 4							F1
21	D 0 4 0	10,000	T	T 0 4							F1
22	D 0 4 1	10,000	T	T 0 4							F1
23	D 0 4 2	10,000	T	T 0 4							F1
24	D 0 4 3	10,000	T	T 0 4							F1
25	F 0 0 1	10,000	T	T 0 4							F1
26	F 0 0 2	10,000	T	T 0 4							F1
27	F 0 0 3	10,000	T	T 0 4							F1
28	F 0 0 4	10,000	T	T 0 4							F1
29	F 0 0 5	10,000	T	T 0 4							F1
30	F 0 0 6	10,000	T	T 0 4							F1
31	F 0 0 7	10,000	T	T 0 4							F1
32	F 0 0 8	10,000	T	T 0 4							F1
33	F 0 0 9	10,000	T	T 0 4							F1

EPA Form 600-23 (01-90)

Secondary Containment from Report

L 0 0 0 6 0 8 4 7 1

XRF Description of Hazardous Waste (continued)

Line Number	A-EPA HAZARDOUS WASTE NO. (enter code)	ESTIMATED AMOUNT OF WASTE	HAZARDOUS WASTE CODE	(1) PROCESS CODE (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in (1))
1	K 0 6 1	10,000	T	T 0 4	F1
2	K 0 6 2	10,000	T	T 0 4	F1
3	K 0 6 9	10,000	T	T 0 4	F1
4	K 0 7 1	10,000	T	T 0 4	F1
5	K 0 7 3	10,000	T	T 0 4	F1
6	K 0 8 3	10,000	T	T 0 4	F1
	K 0 8 4	10,000	T	T 0 4	F1
7	K 0 8 5	10,000	T	T 0 4	F1
8	K 0 8 6	10,000	T	T 0 4	F1
9	K 0 8 7	10,000	T	T 0 4	F1
10	K 0 9 3	10,000	T	T 0 4	F1
11	K 0 9 4	10,000	T	T 0 4	F1
12	K 0 9 5	10,000	T	T 0 4	F1
13	K 0 9 6	10,000	T	T 0 4	F1
14	K 0 9 7	10,000	T	T 0 4	F1
15	K 0 9 8	10,000	T	T 0 4	F1
16	K 0 9 9	10,000	T	T 0 4	F1
17	K 1 0 0	10,000	T	T 0 4	F1
18	K 1 0 1	10,000	T	T 0 4	F1
19	K 1 0 2	10,000	T	T 0 4	F1
	K 1 0 3	10,000	T	T 0 4	F1
20	K 1 0 4	10,000	T	T 0 4	F1
21	K 1 0 5	10,000	T	T 0 4	F1
22	K 1 0 6	10,000	T	T 0 4	F1
23	K 1 1 1	10,000	T	T 0 4	F1
24	K 1 1 2	10,000	T	T 0 4	F1
25	K 1 1 3	10,000	T	T 0 4	F1
26	K 1 1 4	10,000	T	T 0 4	F1
27	K 1 1 5	10,000	T	T 0 4	F1
28	K 1 1 6	10,000	T	T 0 4	F1
29	K 1 1 7	10,000	T	T 0 4	F1
30	K 1 1 8	10,000	T	T 0 4	F1
31	K 1 2 3	10,000	T	T 0 4	F1

Primary Identification Number (enter from page 1)										Secondary Identification Number (enter from page 1)									
I L D 0 0 0 6 0 8 4 7 1																			
Description of Hazardous Waste (continued)																			
Hazardous Waste Number	A. EPA HAZARDOUS WASTE NO. (enter code)				ESTIMATED QUANTITY OF WASTE	HAZARDOUS MATERIAL (enter code)	(1) PROCESS CODE (enter)				(2) PROCESS DESCRIPTION (if standard not entered in (1))								
	1	2	3	4			1	2	3	4	1	2	3	4					
1-1	K	0	2	1	10.000	T	T	0	4					F1					
1-2	K	0	2	2	10.000	T	T	0	4					F1					
1-3	K	0	2	3	10.000	T	T	0	4					F1					
1-4	K	0	2	4	10.000	T	T	0	4					F1					
1-5	K	0	2	5	10.000	T	T	0	4					F1					
1-6	K	0	2	6	10.000	T	T	0	4					F1					
1-7	K	0	2	7	10.000	T	T	0	4					F1					
1-8	K	0	2	8	10.000	T	T	0	4					F1					
1-9	K	0	2	9	10.000	T	T	0	4					F1					
1-10	K	0	3	0	10.000	T	T	0	4					F1					
1-11	K	0	3	1	10.000	T	T	0	4					F1					
1-12	K	0	3	2	10.000	T	T	0	4					F1					
1-13	K	0	3	3	10.000	T	T	0	4					F1					
1-14	K	0	3	4	10.000	T	T	0	4					F1					
1-15	K	0	3	5	10.000	T	T	0	4					F1					
1-16	K	0	3	6	10.000	T	T	0	4					F1					
1-17	K	0	3	7	10.000	T	T	0	4					F1					
1-18	K	0	3	8	10.000	T	T	0	4					F1					
1-19	K	0	3	9	10.000	T	T	0	4					F1					
2-10	K	0	4	0	10.000	T	T	0	4					F1					
2-11	K	0	4	1	10.000	T	T	0	4					F1					
2-12	K	0	4	2	10.000	T	T	0	4					F1					
2-13	K	0	4	3	10.000	T	T	0	4					F1					
2-14	K	0	4	4	10.000	T	T	0	4					F1					
2-15	K	0	4	5	10.000	T	T	0	4					F1					
2-16	K	0	4	6	10.000	T	T	0	4					F1					
2-17	K	0	4	7	10.000	T	T	0	4					F1					
2-18	K	0	4	8	10.000	T	T	0	4					F1					
2-19	K	0	4	9	10.000	T	T	0	4					F1					
3-10	K	0	5	0	10.000	T	T	0	4					F1					
3-11	K	0	5	1	10.000	T	T	0	4					F1					
3-12	K	0	5	2	10.000	T	T	0	4					F1					
3-13	K	0	6	0	10.000	T	T	0	4					F1					

Primary ID Number (from page 1)										Secondary ID Number (from page 1)									
I L D 0 0 0 6 0 8 4 7 1																			
Description of Hazardous Waste (continued)																			
Line Number	A.P.A. HAZARDOUS WASTE NO. (6 character)	ESTIMATED QUANTITY OF WASTE	TREATMENT	(1) PROCESS CODES (only)				(2) PROCESS DESCRIPTION (if 2 codes are entered in (1))											
				T	0	4													
1	U 0 3 1	10.000	T	T	0	4						F1							
2	U 0 3 2	10.000	T	T	0	4						F1							
3	U 0 3 3	10.000	T	T	0	4						F1							
4	U 0 3 4	10.000	T	T	0	4						F1							
5	U 0 3 5	10.000	T	T	0	4						F1							
6	U 0 3 6	10.000	T	T	0	4						F1							
7	U 0 3 7	10.000	T	T	0	4						F1							
8	U 0 3 8	10.000	T	T	0	4						F1							
9	U 0 3 9	10.000	T	T	0	4						F1							
10	U 0 4 1	10.000	T	T	0	4						F1							
11	U 0 4 2	10.000	T	T	0	4						F1							
12	U 0 4 3	10.000	T	T	0	4						F1							
13	U 0 4 4	10.000	T	T	0	4						F1							
14	U 0 4 5	10.000	T	T	0	4						F1							
15	U 0 4 6	10.000	T	T	0	4						F1							
16	U 0 4 7	10.000	T	T	0	4						F1							
17	U 0 4 8	10.000	T	T	0	4						F1							
18	U 0 4 9	10.000	T	T	0	4						F1							
19	U 0 5 0	10.000	T	T	0	4						F1							
20	U 0 5 1	10.000	T	T	0	4						F1							
21	U 0 5 2	10.000	T	T	0	4						F1							
22	U 0 5 3	10.000	T	T	0	4						F1							
23	U 0 5 5	10.000	T	T	0	4						F1							
24	U 0 5 6	10.000	T	T	0	4						F1							
25	U 0 5 7	10.000	T	T	0	4						F1							
26	U 0 5 8	10.000	T	T	0	4						F1							
27	U 0 6 0	10.000	T	T	0	4						F1							
28	U 0 6 1	10.000	T	T	0	4						F1							
29	U 0 6 2	10.000	T	T	0	4						F1							
30	U 0 6 3	10.000	T	T	0	4						F1							
31	U 0 6 4	10.000	T	T	0	4						F1							
32	U 0 6 6	10.000	T	T	0	4						F1							
33	U 0 6 7	10.000	T	T	0	4						F1							

EPA ID Number (from page 1)

Secondary ID Number (from page 1)

I L D 0 0 0 6 0 8 4 7 1

XRD Description of Hazardous Waste (continued)

EPA HAZARDOUS WASTE NO. (6-digits)	ESTIMATED ANNUAL QUANTITY OF WASTE	HAZARDOUS WASTE (1-digit)	PROCESS CODE (4-digits)				PROCESS DESCRIPTION (If code is not entered in DFT)			
			(1)	(2)	(3)	(4)				
101	10,000	T	T	0	4					F1
102	10,000	T	T	0	4					F1
103	10,000	T	T	0	4					F1
104	10,000	T	T	0	4					F1
105	10,000	T	T	0	4					F1
106	10,000	T	T	0	4					F1
107	10,000	T	T	0	4					F1
108	10,000	T	T	0	4					F1
109	10,000	T	T	0	4					F1
110	10,000	T	T	0	4					F1
111	10,000	T	T	0	4					F1
112	10,000	T	T	0	4					F1
113	10,000	T	T	0	4					F1
114	10,000	T	T	0	4					F1
115	10,000	T	T	0	4					F1
116	10,000	T	T	0	4					F1
117	10,000	T	T	0	4					F1
118	10,000	T	T	0	4					F1
119	10,000	T	T	0	4					F1
200	10,000	T	T	0	4					F1
201	10,000	T	T	0	4					F1
202	10,000	T	T	0	4					F1
203	10,000	T	T	0	4					F1
204	10,000	T	T	0	4					F1
205	10,000	T	T	0	4					F1
206	10,000	T	T	0	4					F1
207	10,000	T	T	0	4					F1
208	10,000	T	T	0	4					F1
209	10,000	T	T	0	4					F1
300	10,000	T	T	0	4					F1
301	10,000	T	T	0	4					F1
302	10,000	T	T	0	4					F1
303	10,000	T	T	0	4					F1



EPA Form 8700-23 (01-90)											
Description of Hazardous Waste (continued)											
Waste Number	A. EPA HAZARDOUS WASTE NO. (or other code)			ESTIMATED ANNUAL QUANTITY OF WASTE	HAZARDOUS WASTE CODE	(1) PROCESS CODES (entry)				(2) PROCESS DESCRIPTION (If a code is not entered in (1))	
	1	2	3			4	5	6	7		8
1	U	1	0	2	10,000	T	T	0	4		
2	U	1	0	3	10,000	T	T	0	4		
3	U	1	0	5	10,000	T	T	0	4		
4	U	1	0	6	10,000	T	T	0	4		
5	U	1	0	7	10,000	T	T	0	4		
6	U	1	0	8	10,000	T	T	0	4		
7	U	1	0	9	10,000	T	T	0	4		
8	U	1	1	0	10,000	T	T	0	4		
9	U	1	1	1	10,000	T	T	0	4		
10	U	1	1	2	10,000	T	T	0	4		
11	U	1	1	3	10,000	T	T	0	4		
12	U	1	1	4	10,000	T	T	0	4		
13	U	1	1	5	10,000	T	T	0	4		
14	U	1	1	6	10,000	T	T	0	4		
15	U	1	1	7	10,000	T	T	0	4		
16	U	1	1	8	10,000	T	T	0	4		
17	U	1	1	9	10,000	T	T	0	4		
18	U	1	2	0	10,000	T	T	0	4		
19	U	1	2	1	10,000	T	T	0	4		
20	U	1	2	2	10,000	T	T	0	4		
21	U	1	2	3	10,000	T	T	0	4		
22	U	1	2	4	10,000	T	T	0	4		
23	U	1	2	5	10,000	T	T	0	4		
24	U	1	2	6	10,000	T	T	0	4		
25	U	1	2	7	10,000	T	T	0	4		
26	U	1	2	8	10,000	T	T	0	4		
27	U	1	2	9	10,000	T	T	0	4		
28	U	1	3	0	10,000	T	T	0	4		
29	U	1	3	1	10,000	T	T	0	4		
30	U	1	3	2	10,000	T	T	0	4		
31	U	1	3	3	10,000	T	T	0	4		
32	U	1	3	4	10,000	T	T	0	4		
33	U	1	3	5	10,000	T	T	0	4		

EPA Form 8700-23 (01-90)											
Section 1: Identification of the Facility											
Section 2: Description of Hazardous Waste (continued)											
Line Number	A-EPA HAZARDOUS WASTE NO. (eight code)	ESTIMATED QUANTITY OF WASTE	HAZARDOUS WASTE CODE	(1) PROCESS CODES (four)				(2) PROCESS DESCRIPTIONS (if a code not entered in (1))			
				1	2	3	4	1	2	3	4
1	U 0 6 8	10,000	T	T	0	4					F1
2	U 0 6 9	10,000	T	T	0	4					F1
3	U 0 7 0	10,000	T	T	0	4					F1
4	U 0 7 1	10,000	T	T	0	4					F1
5	U 0 7 2	10,000	T	T	0	4					F1
6	U 0 7 3	10,000	T	T	0	4					F1
7	U 0 7 4	10,000	T	T	0	4					F1
8	U 0 7 5	10,000	T	T	0	4					F1
9	U 0 7 6	10,000	T	T	0	4					F1
10	U 0 7 7	10,000	T	T	0	4					F1
11	U 0 7 8	10,000	T	T	0	4					F1
12	U 0 7 9	10,000	T	T	0	4					F1
13	U 0 8 0	10,000	T	T	0	4					F1
14	U 0 8 1	10,000	T	T	0	4					F1
15	U 0 8 2	10,000	T	T	0	4					F1
16	U 0 8 3	10,000	T	T	0	4					F1
17	U 0 8 4	10,000	T	T	0	4					F1
18	U 0 8 5	10,000	T	T	0	4					F1
19	U 0 8 6	10,000	T	T	0	4					F1
20	U 0 8 7	10,000	T	T	0	4					F1
21	U 0 8 8	10,000	T	T	0	4					F1
22	U 0 8 9	10,000	T	T	0	4					F1
23	U 0 9 0	10,000	T	T	0	4					F1
24	U 0 9 1	10,000	T	T	0	4					F1
25	U 0 9 2	10,000	T	T	0	4					F1
26	U 0 9 3	10,000	T	T	0	4					F1
27	U 0 9 4	10,000	T	T	0	4					F1
28	U 0 9 5	10,000	T	T	0	4					F1
29	U 0 9 6	10,000	T	T	0	4					F1
30	U 0 9 7	10,000	T	T	0	4					F1
31	U 0 9 8	10,000	T	T	0	4					F1
32	U 0 9 9	10,000	T	T	0	4					F1
33	U 1 0 11	10,000	T	T	0	4					F1

EPA ID Number from page 1

Secondary ID Number from page 2

I L D 0 0 0 6 0 8 4 7 1

Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (eight code)	ESTIMATED ANNUAL QUANTITY OF WASTE	HAZARDOUS WASTE CODE	(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTIONS (If a code is not entered in (1))
1	U 1 7 0	10,000	T	T 0 4	F1
2	U 1 7 1	10,000	T	T 0	F1
3	U 1 7 2	10,000	T	T 0 4	F1
4	U 1 7 3	10,000	T	T 0 4	F1
5	U 1 7 4	10,000	T	T 0 4	F1
6	U 1 7 6	10,000	T	T 0 4	F1
7	U 1 7 7	10,000	T	T 0 4	F1
8	U 1 7 8	10,000	T	T 0 4	F1
9	U 1 7 9	10,000	T	T 0 4	F1
10	U 1 8 0	10,000	T	T 0 4	F1
11	U 1 8 1	10,000	T	T 0 4	F1
12	U 1 8 2	10,000	T	T 0 4	F1
13	U 1 8 3	10,000	T	T 0 4	F1
14	U 1 8 4	10,000	T	T 0 4	F1
15	U 1 8 5	10,000	T	T 0 4	F1
16	U 1 8 6	10,000	T	T 0 4	F1
17	U 1 8 7	10,000	T	T 0 4	F1
18	U 1 8 8	10,000	T	T 0 4	F1
19	U 1 8 9	10,000	T	T 0 4	F1
20	U 1 9 0	10,000	T	T 0 4	F1
21	U 1 9 1	10,000	T	T 0 4	F1
22	U 1 9 2	10,000	T	T 0 4	F1
23	U 1 9 3	10,000	T	T 0 4	F1
24	U 1 9 4	10,000	T	T 0 4	F1
25	U 1 9 6	10,000	T	T 0 4	F1
26	U 1 9 7	10,000	T	T 0 4	F1
27	U 2 0 0	10,000	T	T 0 4	F1
28	U 2 0 1	10,000	T	T 0 4	F1
29	U 2 0 2	10,000	T	T 0 4	F1
30	U 2 0 3	10,000	T	T 0 4	F1
31	U 2 0 4	10,000	T	T 0 4	F1
32	U 2 0 5	10,000	T	T 0 4	F1
33	U 2 0 6	10,000	T	T 0	F1

I L D 0 0 0 6 0 8 4 7 1												
Description of Materials												
Line Number	Material Code	Quantity	Unit	Material Name	Material Description	Material Code	Material Code	Material Code	Material Code	Material Code	Material Code	Material Code
1	U 1 3 6	10.000	T	T 0 4								F1
2	U 1 3 7	10.000	T	T 0 4								F1
3	U 1 3 8	10.000	T	T 0 4								F1
4	U 1 4 0	10.000	T	T 0 4								F1
5	U 1 4 1	10.000	T	T 0 4								F1
6	U 1 4 2	10.000	T	T 0 4								F1
7	U 1 4 3	10.000	T	T 0 4								F1
8	U 1 4 4	10.000	T	T 0 4								F1
9	U 1 4 5	10.000	T	T 0 4								F1
10	U 1 4 6	10.000	T	T 0 4								F1
11	U 1 4 7	10.000	T	T 0 4								F1
12	U 1 4 8	10.000	T	T 0 4								F1
13	U 1 4 9	10.000	T	T 0 4								F1
14	U 1 5 0	10.000	T	T 0 4								F1
15	U 1 5 1	10.000	T	T 0 4								F1
16	U 1 5 2	10.000	T	T 0 4								F1
17	U 1 5 3	10.000	T	T 0 4								F1
18	U 1 5 4	10.000	T	T 0 4								F1
19	U 1 5 5	10.000	T	T 0 4								F1
20	U 1 5 6	10.000	T	T 0 4								F1
21	U 1 5 7	10.000	T	T 0 4								F1
22	U 1 5 8	10.000	T	T 0 4								F1
23	U 1 5 9	10.000	T	T 0 4								F1
24	U 1 6 0	10.000	T	T 0 4								F1
25	U 1 6 1	10.000	T	T 0 4								F1
26	U 1 6 2	10.000	T	T 0 4								F1
27	U 1 6 3	10.000	T	T 0 4								F1
28	U 1 6 4	10.000	T	T 0 4								F1
29	U 1 6 5	10.000	T	T 0 4								F1
30	U 1 6 6	10.000	T	T 0 4								F1
31	U 1 6 7	10.000	T	T 0 4								F1
32	U 1 6 8	10.000	T	T 0 4								F1
33	U 1 6 9	10.000	T	T 0 4								F1

EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

## XII Description of Hazardous Wastes (continued)

Line Number	A HAZARDOUS WASTE NO. (enter code)	ESTIMATED ANNUAL QUANTITY OF WASTE	ESTIMATE OF TREATMENT (enter code)	(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTIONS (if codes not entered in (1))			
1	U 3 2 8	10,000	T	T	0	4					F1
2	U 3 5 3	10,000	T	T	0	4					F1
3	U 3 5 9	10,000	T	T	0	4					F1
4	P 0 0 1	10,000	T	T	0	4					F1
5	P 0 0 2	10,000	T	T	0	4					F1
6	P 0 0 3	10,000	T	T	0	4					F1
7	P 0 0 4	10,000	T	T	0	4					F1
8	P 0 0 5	10,000	T	T	0	4					F1
9	P 0 0 6	10,000	T	T	0	4					F1
10	P 0 0 7	10,000	T	T	0	4					F1
11	P 0 0 8	10,000	T	T	0	4					F1
12	P 0 0 9	10,000	T	T	0	4					F1
13	P 0 1 0	10,000	T	T	0	4					F1
14	P 0 1 1	10,000	T	T	0	4					F1
15	P 0 1 2	10,000	T	T	0	4					F1
16	P 0 1 3	10,000	T	T	0	4					F1
17	P 0 1 4	10,000	T	T	0	4					F1
18	P 0 1 5	10,000	T	T	0	4					F1
19	P 0 1 6	10,000	T	T	0	4					F1
20	P 0 1 7	10,000	T	T	0	4					F1
21	P 0 1 8	10,000	T	T	0	4					F1
22	P 0 2 0	10,000	T	T	0	4					F1
23	P 0 2 1	10,000	T	T	0	4					F1
24	P 0 2 2	10,000	T	T	0	4					F1
25	P 0 2 3	10,000	T	T	0	4					F1
26	P 0 2 4	10,000	T	T	0	4					F1
27	P 0 2 6	10,000	T	T	0	4					F1
28	P 0 2 7	10,000	T	T	0	4					F1
29	P 0 2 8	10,000	T	T	0	4					F1
30	P 0 2 9	10,000	T	T	0	4					F1
31	P 0 3 0	10,000	T	T	0	4					F1
32	P 0 3 1	10,000	T	T	0	4					F1
33	P 0 3 3	10,000	T	T	0	4					F1

First 12 Characters of Identification Number (from page 1)												Second 12 Characters of Identification Number (from page 1)											
I L D 0 0 0 6 0 8 4 7 1																							
Description of Hazardous Waste (continued)																							
Line Number	EPA Hazardous Waste No. (eight digits)	Quantity of Waste	Annual Quantity of Waste	Hazardous Waste Code (four digits)	(1) PROCESS CODES (four digits)								(2) PROCESS DESCRIPTIONS (if codes not entered in (1))										
					1	2	3	4	5	6	7	8	9	10	11	12							
1-1	U 2 0 7	10.000	T	T 0 4																			F1
1-2	U 2 0 8	10.000	T	T 0 4																			F1
1-3	U 2 0 9	10.000	T	T 0 4																			F1
1-4	U 2 1 0	10.000	T	T 0 4																			F1
1-5	U 2 1 1	10.000	T	T 0 4																			F1
1-6	U 2 1 3	10.000	T	T 0 4																			F1
1-7	U 2 1 4	10.000	T	T 0 4																			F1
1-8	U 2 1 5	10.000	T	T 0 4																			F1
1-9	U 2 1 6	10.000	T	T 0 4																			F1
1-10	U 2 1 7	10.000	T	T 0 4																			F1
1-11	U 2 1 8	10.000	T	T 0 4																			F1
1-12	U 2 1 9	10.000	T	T 0 4																			F1
1-13	U 2 2 0	10.000	T	T 0 4																			F1
1-14	U 2 2 1	10.000	T	T 0 4																			F1
1-15	U 2 2 2	10.000	T	T 0 4																			F1
1-16	U 2 2 3	10.000	T	T 0 4																			F1
1-17	U 2 2 5	10.000	T	T 0 4																			F1
1-18	U 2 2 6	10.000	T	T 0 4																			F1
1-19	U 2 2 7	10.000	T	T 0 4																			F1
2-10	U 2 2 8	10.000	T	T 0 4																			F1
2-11	U 2 3 4	10.000	T	T 0 4																			F1
2-12	U 2 3 5	10.000	T	T 0 4																			F1
2-13	U 2 3 6	10.000	T	T 0 4																			F1
2-14	U 2 3 7	10.000	T	T 0 4																			F1
2-15	U 2 3 8	10.000	T	T 0 4																			F1
2-16	U 2 3 9	10.000	T	T 0 4																			F1
2-17	U 2 4 0	10.000	T	T 0 4																			F1
2-18	U 2 4 3	10.000	T	T 0 4																			F1
2-19	U 2 4 4	10.000	T	T 0 4																			F1
3-0	U 2 4 6	10.000	T	T 0 4																			F1
3-1	U 2 4 7	10.000	T	T 0 4																			F1
3-2	U 2 4 8	10.000	T	T 0 4																			F1
3-3	U 2 4 9	10.000	T	T 0 4																			F1

EPA 10 - Manifests from page 1										Secondary Manifests from page 1									
I L D 0 0 0 6 0 8 4 7 1																			
Description of Hazardous Waste (continued)																			
Line Number	A. EPA HAZARDOUS WASTE NO. (eight code)				B. ESTIMATED QUANTITY OF WASTE	C. HAZARDOUS WASTE CODE (three code)	D. PROCESS CODES (four)				E. PROCESS DESCRIPTION (if codes not entered in D, F1)								
	1	2	3	4			1	2	3	4	1	2	3	4					
211	P	0	7	2	10.000	T	T	0	4										F1
212	P	0	7	3	10.000	T	T	0	4										F1
213	P	0	7	4	10.000	T	T	0	4										F1
214	P	0	7	5	10.000	T	T	0	4										F1
215	P	0	7	6	10.000	T	T	0	4										F1
216	P	0	7	7	10.000	T	T	0	4										F1
217	P	0	7	8	10.000	T	T	0	4										F1
218	P	0	8	1	10.000	T	T	0	4										F1
219	P	0	8	2	10.000	T	T	0	4										F1
220	P	0	8	4	10.000	T	T	0	4										F1
221	P	0	8	5	10.000	T	T	0	4										F1
222	P	0	8	7	10.000	T	T	0	4										F1
223	P	0	8	8	10.000	T	T	0	4										F1
224	F	0	3	2	10.000	T	T	0	4										F1
225	F	0	3	4	10.000	T	T	0	4										F1
226	F	0	3	5	10.000	T	T	0	4										F1
227	K	1	0	7	10.000	T	T	0	4										F1
228	K	1	0	8	10.000	T	T	0	4										F1
229	K	1	0	9	10.000	T	T	0	4										F1
230	K	1	1	0	10.000	T	T	0	4										F1
231	K	1	3	1	10.000	T	T	0	4										F1
232	K	1	3	2	10.000	T	T	0	4										F1
233	K	0	6	4	10.000	T	T	0	4										F1
234	K	0	6	5	10.000	T	T	0	4										F1
235	K	0	6	6	10.000	T	T	0	4										F1
236	K	0	8	8	10.000	T	T	0	4										F1
237	K	0	9	0	10.000	T	T	0	4										F1
238	K	0	9	1	10.000	T	T	0	4										F1
239			2	6	10.000	T	T	0	4										F1-INCLUDED WITH ABOVE
240																			
241																			
242																			
243																			

EPA ID Number (enter from page 1)										Secondary ID Number (enter from page 1)											
I	L	D	0	0	0	6	0	8	4	7	1										

**XIV. Description of Hazardous Waste (continued)**

Line Number	A. EPA HAZARDOUS WASTE NO. (code code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (name & code)	D. PROCESSING										F. PROCESS DESCRIPTION (If a code is not entered in D, F1)
	(1) PROCESS CODES (name)																
1-1	P	0	3	4	10,000	T	T	0	4							F1	
1-2	P	0	3	6	10,000	T	T	0	4							F1	
1-3	P	0	3	7	10,000	T	T	0	4							F1	
1-4	P	0	3	8	10,000	T	T	0	4							F1	
1-5	P	0	3	9	10,000	T	T	0	4							F1	
1-6	P	0	4	0	10,000	T	T	0	4							F1	
1-7	P	0	4	1	10,000	T	T	0	4							F1	
1-8	P	0	4	2	10,000	T	T	0	4							F1	
1-9	P	0	4	3	10,000	T	T	0	4							F1	
1-10	P	0	4	4	10,000	T	T	0	4							F1	
1-11	P	0	4	5	10,000	T	T	0	4							F1	
1-12	P	0	4	6	10,000	T	T	0	4							F1	
1-13	P	0	4	7	10,000	T	T	0	4							F1	
1-14	P	0	4	8	10,000	T	T	0	4							F1	
1-15	P	0	4	9	10,000	T	T	0	4							F1	
1-16	P	0	5	0	10,000	T	T	0	4							F1	
1-17	P	0	5	1	10,000	T	T	0	4							F1	
1-18	P	0	5	4	10,000	T	T	0	4							F1	
1-19	P	0	5	6	10,000	T	T	0	4							F1	
2-10	P	0	5	7	10,000	T	T	0	4							F1	
2-11	P	0	5	8	10,000	T	T	0	4							F1	
2-12	P	0	5	9	10,000	T	T	0	4							F1	
2-13	P	0	6	0	10,000	T	T	0	4							F1	
2-14	P	0	6	2	10,000	T	T	0	4							F1	
2-15	P	0	6	3	10,000	T	T	0	4							F1	
2-16	P	0	6	4	10,000	T	T	0	4							F1	
2-17	P	0	6	5	10,000	T	T	0	4							F1	
2-18	P	0	6	6	10,000	T	T	0	4							F1	
2-19	P	0	6	7	10,000	T	T	0	4							F1	
3-0	P	0	6	8	10,000	T	T	0	4							F1	
3-1	P	0	6	9	10,000	T	T	0	4							F1	
3-2	P	0	7	0	10,000	T	T	0	4							F1	
3-3	P	0	7	1	10,000	T	T	0	4							F1	



EPA I.D. Number (enter from page 1)										Secondary ID Number (enter from page 1)											
I	L	D	0	0	0	6	0	8	4	7	1										
Description of Hazardous Waste (enter from page 1)																					
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)				ESTIMATED ANNUAL QUANTITY OF WASTE	C. DANGEROUSNESS MEASURE (enter code)	D. PROCESSES														
							(1) PROCESS CODES (enter)					(2) PROCESS DESCRIPTION (if code is not entered in D(1))									
1	D	0	3	4	10,000	T	T	0	4	T	0	1								G1	
2	D	0	3	5	10,000	T	T	0	4	T	0	1								G1	
3	D	0	3	6	10,000	T	T	0	4	T	0	1								G1	
4	D	0	3	7	10,000	T	T	0	4	T	0	1								G1	
5	D	0	3	8	10,000	T	T	0	4	T	0	1								G1	
6	D	0	3	9	10,000	T	T	0	4	T	0	1								G1	
7	D	0	4	0	10,000	T	T	0	4	T	0	1								G1	
8	D	0	4	1	10,000	T	T	0	4	T	0	1								G1	
9	D	0	4	2	10,000	T	T	0	4	T	0	1								G1	
10	D	0	4	3	10,000	T	T	0	4	T	0	1								G1	
11	F	0	0	1	10,000	T	T	0	4	T	0	1								G1	
12	F	0	0	2	10,000	T	T	0	4	T	0	1								G1	
13	F	0	0	3	10,000	T	T	0	4	T	0	1								G1	
14	F	0	0	4	10,000	T	T	0	4	T	0	1								G1	
15	F	0	0	5	10,000	T	T	0	4	T	0	1								G1	
16	F	0	0	6	10,000	T	T	0	4	T	0	1								G1	
17	F	0	0	7	10,000	T	T	0	4	T	0	1								G1	
18	F	0	0	8	10,000	T	T	0	4	T	0	1								G1	
19	F	0	0	9	10,000	T	T	0	4	T	0	1								G1	
20	F	0	1	0	10,000	T	T	0	4	T	0	1								G1	
21	F	0	1	1	10,000	T	T	0	4	T	0	1								G1	
22	F	0	1	2	10,000	T	T	0	4	T	0	1								G1	
23	F	0	1	9	10,000	T	T	0	4	T	0	1								G1	
24	F	0	2	0	10,000	T	T	0	4	T	0	1								G1	
25	F	0	2	1	10,000	T	T	0	4	T	0	1								G1	
26	F	0	2	2	10,000	T	T	0	4	T	0	1								G1	
27	F	0	2	3	10,000	T	T	0	4	T	0	1								G1	
28	F	0	2	4	10,000	T	T	0	4	T	0	1								G1	
29	F	0	2	5	10,000	T	T	0	4	T	0	1								G1	
30	F	0	2	6	10,000	T	T	0	4	T	0	1								G1	
31	F	0	2	7	10,000	T	T	0	4	T	0	1								G1	
32	F	0	2	8	10,000	T	T	0	4	T	0	1								G1	
33	F	0	3	9	10,000	T	T	0	4	T	0	1								G1	

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I | L | D | 0 | 0 | 0 | 6 | 0 | 8 | 4 | 7 | 1 |

## XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))			
1	D   0   0   1	10,000	T	T	0	4	T	0	1		G1
2	D   0   0   2	10,000	T	T	0	4	T	0	1		G1
3	D   0   0   3	10,000	T	T	0	4	T	0	1		G1
4	D   0   0   4	10,000	T	T	0	4	T	0	1		G1
5	D   0   0   5	10,000	T	T	0	4	T	0	1		G1
6	D   0   0   6	10,000	T	T	0	4	T	0	1		G1
7	D   0   0   7	10,000	T	T	0	4	T	0	1		G1
8	D   0   0   8	10,000	T	T	0	4	T	0	1		G1
9	D   0   0   9	10,000	T	T	0	4	T	0	1		G1
10	D   0   1   0	10,000	T	T	0	4	T	0	1		G1
11	D   0   1   1	10,000	T	T	0	4	T	0	1		G1
12	D   0   1   2	10,000	T	T	0	4	T	0	1		G1
13	D   0   1   3	10,000	T	T	0	4	T	0	1		G1
14	D   0   1   4	10,000	T	T	0	4	T	0	1		G1
15	D   0   1   5	10,000	T	T	0	4	T	0	1		G1
16	D   0   1   6	10,000	T	T	0	4	T	0	1		G1
17	D   0   1   7	10,000	T	T	0	4	T	0	1		G1
18	D   0   1   8	10,000	T	T	0	4	T	0	1		G1
19	D   0   1   9	10,000	T	T	0	4	T	0	1		G1
20	D   0   2   0	10,000	T	T	0	4	T	0	1		G1
21	D   0   2   1	10,000	T	T	0	4	T	0	1		G1
22	D   0   2   2	10,000	T	T	0	4	T	0	1		G1
23	D   0   2   3	10,000	T	T	0	4	T	0	1		G1
24	D   0   2   4	10,000	T	T	0	4	T	0	1		G1
25	D   0   2   5	10,000	T	T	0	4	T	0	1		G1
26	D   0   2   6	10,000	T	T	0	4	T	0	1		G1
27	D   0   2   7	10,000	T	T	0	4	T	0	1		G1
28	D   0   2   8	10,000	T	T	0	4	T	0	1		G1
29	D   0   2   9	10,000	T	T	0	4	T	0	1		G1
30	D   0   3   0	10,000	T	T	0	4	T	0	1		G1
31	D   0   3   1	10,000	T	T	0	4	T	0	1		G1
32	D   0   3   2	10,000	T	T	0	4	T	0	1		G1
33	D   0   3   3	10,000	T	T	0	4	T	0	1		G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	K 0 3 5	10,000	T	T 0 4 T 0 1	G1
2	K 0 3 6	10,000	T	T 0 4 T 0 1	G1
3	K 0 3 7	10,000	T	T 0 4 T 0 1	G1
4	K 0 3 8	10,000	T	T 0 4 T 0 1	G1
5	K 0 3 9	10,000	T	T 0 4 T 0 1	G1
6	K 0 4 0	10,000	T	T 0 4 T 0 1	G1
7	K 0 4 1	10,000	T	T 0 4 T 0 1	G1
8	K 0 4 2	10,000	T	T 0 4 T 0 1	G1
9	K 0 4 3	10,000	T	T 0 4 T 0 1	G1
1	K 0 4 4	10,000	T	T 0 4 T 0 1	G1
1	K 0 4 5	10,000	T	T 0 4 T 0 1	G1
1 2	K 0 4 6	10,000	T	T 0 4 T 0 1	G1
1 3	K 0 4 7	10,000	T	T 0 4 T 0 1	G1
1 4	K 0 4 8	10,000	T	T 0 4 T 0 1	G1
1 5	K 0 4 9	10,000	T	T 0 4 T 0 1	G1
1 6	K 0 5 0	10,000	T	T 0 4 T 0 1	G1
1 7	K 0 5 1	10,000	T	T 0 4 T 0 1	G1
1 8	K 0 5 2	10,000	T	T 0 4 T 0 1	G1
1 9	K 0 6 0	10,000	T	T 0 4 T 0 1	G1
2 0	K 0 6 1	10,000	T	T 0 4 T 0 1	G1
2 1	K 0 6 2	10,000	T	T 0 4 T 0 1	G1
2 2	K 0 6 9	10,000	T	T 0 4 T 0 1	G1
2 3	K 0 7 1	10,000	T	T 0 4 T 0 1	G1
2 4	K 0 7 3	10,000	T	T 0 4 T 0 1	G1
2 5	K 0 8 3	10,000	T	T 0 4 T 0 1	G1
2 6	K 0 8 4	10,000	T	T 0 4 T 0 1	G1
2 7	K 0 8 5	10,000	T	T 0 4 T 0 1	G1
2 8	K 0 8 6	10,000	T	T 0 4 T 0 1	G1
2 9	K 0 8 7	10,000	T	T 0 4 T 0 1	G1
3	K 0 9 3	10,000	T	T 0 4 T 0 1	G1
3 1	K 0 9 4	10,000	T	T 0 4 T 0 1	G1
3 2	K 0 9 5	10,000	T	T 0 4 T 0 1	G1
3 3	K 0 9 6	10,000	T	T 0 4 T 0 1	G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

T L D 0 0 0 6 0 8 4 7 1

## XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
1	K 0 0 1	10,000	T	T 0 4 T 0 1	G1
2	K 0 0 2	10,000	T	T 0 4 T 0 1	G1
3	K 0 0 3	10,000	T	T 0 4 T 0 1	G1
4	K 0 0 4	10,000	T	T 0 4 T 0 1	G1
5	K 0 0 5	10,000	T	T 0 4 T 0 1	G1
6	K 0 0 6	10,000	T	T 0 4 T 0 1	G1
7	K 0 0 7	10,000	T	T 0 4 T 0 1	G1
8	K 0 0 8	10,000	T	T 0 4 T 0 1	G1
9	K 0 0 9	10,000	T	T 0 4 T 0 1	G1
10	K 0 1 0	10,000	T	T 0 4 T 0 1	G1
11	K 0 1 1	10,000	T	T 0 4 T 0 1	G1
12	K 0 1 3	10,000	T	T 0 4 T 0 1	G1
13	K 0 1 4	10,000	T	T 0 4 T 0 1	G1
14	K 0 1 5	10,000	T	T 0 4 T 0 1	G1
15	K 0 1 6	10,000	T	T 0 4 T 0 1	G1
16	K 0 1 7	10,000	T	T 0 4 T 0 1	G1
17	K 0 1 8	10,000	T	T 0 4 T 0 1	G1
18	K 0 1 9	10,000	T	T 0 4 T 0 1	G1
19	K 0 2 0	10,000	T	T 0 4 T 0 1	G1
20	K 0 2 1	10,000	T	T 0 4 T 0 1	G1
21	K 0 2 2	10,000	T	T 0 4 T 0 1	G1
22	K 0 2 3	10,000	T	T 0 4 T 0 1	G1
23	K 0 2 4	10,000	T	T 0 4 T 0 1	G1
24	K 0 2 5	10,000	T	T 0 4 T 0 1	G1
25	K 0 2 6	10,000	T	T 0 4 T 0 1	G1
26	K 0 2 7	10,000	T	T 0 4 T 0 1	G1
27	K 0 2 8	10,000	T	T 0 4 T 0 1	G1
28	K 0 2 9	10,000	T	T 0 4 T 0 1	G1
29	K 0 3 0	10,000	T	T 0 4 T 0 1	G1
30	K 0 3 1	10,000	T	T 0 4 T 0 1	G1
31	K 0 3 2	10,000	T	T 0 4 T 0 1	G1
32	K 0 3 3	10,000	T	T 0 4 T 0 1	G1
33	K 0 3 4	10,000	T	T 0 4 T 0 1	G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

## XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	U 0 1 0	10,000	T	T 0 4	T 0 1				G1	
2	U 0 1 1	10,000	T	T 0 4	T 0 1				G1	
3	U 0 1 2	10,000	T	T 0 4	T 0 1				G1	
4	U 0 1 3	10,000	T	T 0 4	T 0 1				G1	
5	U 0 1 4	10,000	T	T 0 4	T 0 1				G1	
6	U 0 1 5	10,000	T	T 0 4	T 0 1				G1	
7	U 0 1 6	10,000	T	T 0 4	T 0 1				G1	
8	U 0 1 7	10,000	T	T 0 4	T 0 1				G1	
9	U 0 1 8	10,000	T	T 0 4	T 0 1				G1	
10	U 0 1 9	10,000	T	T 0 4	T 0 1				G1	
11	U 0 2 0	10,000	T	T 0 4	T 0 1				G1	
12	U 0 2 1	10,000	T	T 0 4	T 0 1				G1	
13	U 0 2 2	10,000	T	T 0 4	T 0 1				G1	
14	U 0 2 3	10,000	T	T 0 4	T 0 1				G1	
15	U 0 2 4	10,000	T	T 0 4	T 0 1				G1	
16	U 0 2 5	10,000	T	T 0 4	T 0 1				G1	
17	U 0 2 6	10,000	T	T 0 4	T 0 1				G1	
18	U 0 2 7	10,000	T	T 0 4	T 0 1				G1	
19	U 0 2 8	10,000	T	T 0 4	T 0 1				G1	
20	U 0 2 9	10,000	T	T 0 4	T 0 1				G1	
21	U 0 3 0	10,000	T	T 0 4	T 0 1				G1	
22	U 0 3 1	10,000	T	T 0 4	T 0 1				G1	
23	U 0 3 2	10,000	T	T 0 4	T 0 1				G1	
24	U 0 3 3	10,000	T	T 0 4	T 0 1				G1	
25	U 0 3 4	10,000	T	T 0 4	T 0 1				G1	
26	U 0 3 5	10,000	T	T 0 4	T 0 1				G1	
27	U 0 3 6	10,000	T	T 0 4	T 0 1				G1	
28	U 0 3 7	10,000	T	T 0 4	T 0 1				G1	
29	U 0 3 8	10,000	T	T 0 4	T 0 1				G1	
30	U 0 3 9	10,000	T	T 0 4	T 0 1				G1	
31	U 0 4 1	10,000	T	T 0 4	T 0 1				G1	
32	U 0 4 2	10,000	T	T 0 4	T 0 1				G1	
33	U 0 4 3	10,000	T	T 0 4	T 0 1				G1	

EPA T.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

T L D 0 0 0 6 0 8 4 7 1

## XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESS								(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
	(1) PROCESS CODE (enter)														
	1				INTENTIONALLY	LEFT	BLANK								
2	K	0	9	7	10,000	T	T	0	4	T	0	1		G1	
3	K	0	9	8	10,000	T	T	0	4	T	0	1		G1	
4	K	0	9	9	10,000	T	T	0	4	T	0	1		G1	
5	K	1	0	0	10,000	T	T	0	4	T	0	1		G1	
6	K	1	0	1	10,000	T	T	0	4	T	0	1		G1	
7	K	1	0	2	10,000	T	T	0	4	T	0	1		G1	
8	K	1	0	3	10,000	T	T	0	4	T	0	1		G1	
9	K	1	0	4	10,000	T	T	0	4	T	0	1		G1	
10	K	1	0	5	10,000	T	T	0	4	T	0	1		G1	
11	K	1	0	6	10,000	T	T	0	4	T	0	1		G1	
12	K	1	1	1	10,000	T	T	0	4	T	0	1		G1	
13	K	1	1	2	10,000	T	T	0	4	T	0	1		G1	
14	K	1	1	3	10,000	T	T	0	4	T	0	1		G1	
15	K	1	1	4	10,000	T	T	0	4	T	0	1		G1	
16	K	1	1	5	10,000	T	T	0	4	T	0	1		G1	
17	K	1	1	6	10,000	T	T	0	4	T	0	1		G1	
18	K	1	1	7	10,000	T	T	0	4	T	0	1		G1	
19	K	1	1	8	10,000	T	T	0	4	T	0	1		G1	
20	K	1	2	3	10,000	T	T	0	4	T	0	1		G1	
21	K	1	2	4	10,000	T	T	0	4	T	0	1		G1	
22	K	1	2	5	10,000	T	T	0	4	T	0	1		G1	
23	K	1	2	6	10,000	T	T	0	4	T	0	1		G1	
24	K	1	3	6	10,000	T	T	0	4	T	0	1		G1	
25	U	0	0	1	10,000	T	T	0	4	T	0	1		G1	
26	U	0	0	2	10,000	T	T	0	4	T	0	1		G1	
27	U	0	0	3	10,000	T	T	0	4	T	0	1		G1	
28	U	0	0	4	10,000	T	T	0	4	T	0	1		G1	
29	U	0	0	5	10,000	T	T	0	4	T	0	1		G1	
30	U	0	0	6	10,000	T	T	0	4	T	0	1		G1	
31	U	0	0	7	10,000	T	T	0	4	T	0	1		G1	
32	U	0	0	8	10,000	T	T	0	4	T	0	1		G1	
33	U	0	0	9	10,000	T	T	0	4	T	0	1		G1	

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

L | D | 0 | 0 | 0 | 6 | 0 | 8 | 4 | 7 | 1 |

Description of Hazardous Wastes (continued):

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES							
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (if a code is not entered in D(1))			
	1	U 0 8 0	10,000	T	T	0	4	T	0	1	G1
	2	U 0 8 1	10,000	T	T	0	4	T	0	1	G1
	3	U 0 8 2	10,000	T	T	0	4	T	0	1	G1
	4	U 0 8 3	10,000	T	T	0	4	T	0	1	G1
	5	U 0 8 4	10,000	T	T	0	4	T	0	1	G1
	6	U 0 8 5	10,000	T	T	0	4	T	0	1	G1
	7	U 0 8 6	10,000	T	T	0	4	T	0	1	G1
	8	U 0 8 7	10,000	T	T	0	4	T	0	1	G1
	9	U 0 8 8	10,000	T	T	0	4	T	0	1	G1
1	0	U 0 8 9	10,000	T	T	0	4	T	0	1	G1
1	1	U 0 9 0	10,000	T	T	0	4	T	0	1	G1
1	2	U 0 9 1	10,000	T	T	0	4	T	0	1	G1
1	3	U 0 9 2	10,000	T	T	0	4	T	0	1	G1
1	4	U 0 9 3	10,000	T	T	0	4	T	0	1	G1
1	5	U 0 9 4	10,000	T	T	0	4	T	0	1	G1
1	6	U 0 9 5	10,000	T	T	0	4	T	0	1	G1
1	7	U 0 9 6	10,000	T	T	0	4	T	0	1	G1
1	8	U 0 9 7	10,000	T	T	0	4	T	0	1	G1
1	9	U 0 9 8	10,000	T	T	0	4	T	0	1	G1
2	0	U 0 9 9	10,000	T	T	0	4	T	0	1	G1
2	1	U 1 0 1	10,000	T	T	0	4	T	0	1	G1
2	2	U 1 0 2	10,000	T	T	0	4	T	0	1	G1
2	3	U 1 0 3	10,000	T	T	0	4	T	0	1	G1
2	4	U 1 0 5	10,000	T	T	0	4	T	0	1	G1
2	5	U 1 0 6	10,000	T	T	0	4	T	0	1	G1
2	6	U 1 0 7	10,000	T	T	0	4	T	0	1	G1
2	7	U 1 0 8	10,000	T	T	0	4	T	0	1	G1
2	9	U 1 0 9	10,000	T	T	0	4	T	0	1	G1
		U 1 1 0	10,000	T	T	0	4	T	0	1	G1
	0	U 1 1 1	10,000	T	T	0	4	T	0	1	G1
3	1	U 1 1 2	10,000	T	T	0	4	T	0	1	G1
3	2	U 1 1 3	10,000	T	T	0	4	T	0	1	G1
3	3	U 1 1 4	10,000	T	T	0	4	T	0	1	G1

EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

L D 0 0 0 6 0 8 4 7 1

A. Description of Hazardous Waste (continued)

Line Number		A. EPA HAZARDOUS WASTE NO. (enter code)			B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)										(2) PROCESS DESCRIPTION (If a code is not entered in D(1))	
1	U	0	4	4	10,000	T	T	0	4	T	0	1					G1	
2	U	0	4	5	10,000	T	T	0	4	T	0	1					G1	
3	U	0	4	6	10,000	T	T	0	4	T	0	1					G1	
4	U	0	4	7	10,000	T	T	0	4	T	0	1					G1	
5	U	0	4	8	10,000	T	T	0	4	T	0	1					G1	
6	U	0	4	9	10,000	T	T	0	4	T	0	1					G1	
7	U	0	5	0	10,000	T	T	0	4	T	0	1					G1	
8	U	0	5	1	10,000	T	T	0	4	T	0	1					G1	
9	U	0	5	2	10,000	T	T	0	4	T	0	1					G1	
10	U	0	5	3	10,000	T	T	0	4	T	0	1					G1	
11	U	0	5	5	10,000	T	T	0	4	T	0	1					G1	
12	U	0	5	6	10,000	T	T	0	4	T	0	1					G1	
13	U	0	5	7	10,000	T	T	0	4	T	0	1					G1	
14	U	0	5	8	10,000	T	T	0	4	T	0	1					G1	
15	U	0	6	0	10,000	T	T	0	4	T	0	1					G1	
16	U	0	6	1	10,000	T	T	0	4	T	0	1					G1	
17	U	0	6	2	10,000	T	T	0	4	T	0	1					G1	
18	U	0	6	3	10,000	T	T	0	4	T	0	1					G1	
19	U	0	6	4	10,000	T	T	0	4	T	0	1					G1	
20	U	0	6	6	10,000	T	T	0	4	T	0	1					G1	
21	U	0	6	7	10,000	T	T	0	4	T	0	1					G1	
22	U	0	6	8	10,000	T	T	0	4	T	0	1					G1	
23	U	0	6	9	10,000	T	T	0	4	T	0	1					G1	
24	U	0	7	0	10,000	T	T	0	4	T	0	1					G1	
25	U	0	7	1	10,000	T	T	0	4	T	0	1					G1	
26	U	0	7	2	10,000	T	T	0	4	T	0	1					G1	
27	U	0	7	3	10,000	T	T	0	4	T	0	1					G1	
28	U	0	7	4	10,000	T	T	0	4	T	0	1					G1	
29	U	0	7	5	10,000	T	T	0	4	T	0	1					G1	
30	U	0	7	6	10,000	T	T	0	4	T	0	1					G1	
31	U	0	7	7	10,000	T	T	0	4	T	0	1					G1	
32	U	0	7	8	10,000	T	T	0	4	T	0	1					G1	
33	U	0	7	9	10,000	T	T	0	4	T	0	1					G1	



EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

I | I | D | 0 | 0 | 0 | 6 | 0 | 8 | 4 | 7 | 1 |

Description of Hazardous Wastes (continued)

				D. PROCESSES											
Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)			B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	(1) PROCESS CODES (enter)						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))			
	1	U	1 4 9	10,000	T	T	0	4	T	0	1				G1
	2	U	1 5 0	10,000	T	T	0	4	T	0	1				G1
	3	U	1 5 1	10,000	T	T	0	4	T	0	1				G1
	4	U	1 5 2	10,000	T	T	0	4	T	0	1				G1
	5	U	1 5 3	10,000	T	T	0	4	T	0	1				G1
	6	U	1 5 4	10,000	T	T	0	4	T	0	1				G1
	7	U	1 5 5	10,000	T	T	0	4	T	0	1				G1
	8	U	1 5 6	10,000	T	T	0	4	T	0	1				G1
	9	U	1 5 7	10,000	T	T	0	4	T	0	1				G1
1	0	U	1 5 8	10,000	T	T	0	4	T	0	1				G1
1	1	U	1 5 9	10,000	T	T	0	4	T	0	1				G1
1	2	U	1 6 0	10,000	T	T	0	4	T	0	1				G1
1	3	U	1 6 1	10,000	T	T	0	4	T	0	1				G1
1	4	U	1 6 2	10,000	T	T	0	4	T	0	1				G1
1	5	U	1 6 3	10,000	T	T	0	4	T	0	1				G1
1	6	U	1 6 4	10,000	T	T	0	4	T	0	1				G1
1	7	U	1 6 5	10,000	T	T	0	4	T	0	1				G1
1	8	U	1 6 6	10,000	T	T	0	4	T	0	1				G1
	9	U	1 6 7	10,000	T	T	0	4	T	0	1				G1
2	0	U	1 6 8	10,000	T	T	0	4	T	0	1				G1
2	1	U	1 6 9	10,000	T	T	0	4	T	0	1				G1
2	2	U	1 7 0	10,000	T	T	0	4	T	0	1				G1
2	3	U	1 7 1	10,000	T	T	0	4	T	0	1				G1
2	4	U	1 7 2	10,000	T	T	0	4	T	0	1				G1
2	5	U	1 7 3	10,000	T	T	0	4	T	0	1				G1
2	6	U	1 7 4	10,000	T	T	0	4	T	0	1				G1
2	7	U	1 7 5	10,000	T	T	0	4	T	0	1				G1
2	8	U	1 7 6	10,000	T	T	0	4	T	0	1				G1
2	9	U	1 7 7	10,000	T	T	0	4	T	0	1				G1
3	0	U	1 7 8	10,000	T	T	0	4	T	0	1				G1
3	1	U	1 7 9	10,000	T	T	0	4	T	0	1				G1
3	2	U	1 8 0	10,000	T	T	0	4	T	0	1				G1
3	3	U	1 8 1	10,000	T	T	0	4	T	0	1				G1
3	4	U	1 8 2	10,000	T	T	0	4	T	0	1				G1

EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

XRC Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U 1 1 5	10,000	T	T 0 4 T 0 1	G1
2	U 1 1 6	10,000	T	T 0 4 T 0 1	G1
3	U 1 1 7	10,000	T	T 0 4 T 0 1	G1
4	U 1 1 8	10,000	T	T 0 4 T 0 1	G1
5	U 1 1 9	10,000	T	T 0 4 T 0 1	G1
6	U 1 2 0	10,000	T	T 0 4 T 0 1	G1
7	U 1 2 1	10,000	T	T 0 4 T 0 1	G1
8	U 1 2 2	10,000	T	T 0 4 T 0 1	G1
9	U 1 2 3	10,000	T	T 0 4 T 0 1	G1
10	U 1 2 4	10,000	T	T 0 4 T 0 1	G1
11	U 1 2 5	10,000	T	T 0 4 T 0 1	G1
12	U 1 2 6	10,000	T	T 0 4 T 0 1	G1
13	U 1 2 7	10,000	T	T 0 4 T 0 1	G1
14	U 1 2 8	10,000	T	T 0 4 T 0 1	G1
15	U 1 2 9	10,000	T	T 0 4 T 0 1	G1
16	U 1 3 0	10,000	T	T 0 4 T 0 1	G1
17	U 1 3 1	10,000	T	T 0 4 T 0 1	G1
18	U 1 3 2	10,000	T	T 0 4 T 0 1	G1
19	U 1 3 3	10,000	T	T 0 4 T 0 1	G1
20	U 1 3 4	10,000	T	T 0 4 T 0 1	G1
21	U 1 3 5	10,000	T	T 0 4 T 0 1	G1
22	U 1 3 6	10,000	T	T 0 4 T 0 1	G1
23	U 1 3 7	10,000	T	T 0 4 T 0 1	G1
24	U 1 3 8	10,000	T	T 0 4 T 0 1	G1
25	U 1 4 0	10,000	T	T 0 4 T 0 1	G1
26	U 1 4 1	10,000	T	T 0 4 T 0 1	G1
27	U 1 4 2	10,000	T	T 0 4 T 0 1	G1
28	U 1 4 3	10,000	T	T 0 4 T 0 1	G1
29	U 1 4 4	10,000	T	T 0 4 T 0 1	G1
30	U 1 4 5	10,000	T	T 0 4 T 0 1	G1
31	U 1 4 6	10,000	T	T 0 4 T 0 1	G1
32	U 1 4 7	10,000	T	T 0 4 T 0 1	G1
33	U 1 4 8	10,000	T	T 0 4 T 0 1	G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

1 1 D 0 0 0 6 10 8 4 7 1 1

## XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES						
				(1) PROCESS CODES (enter)				(2) PROCESS DESCRIPTION (If a code is not entered in D(1))		
1	U 2 1 9	10,000	T	T	0	4	T	0	1	G1
2	U 2 2 0	10,000	T	T	0	4	T	0	1	G1
3	U 2 2 1	10,000	T	T	0	4	T	0	1	G1
4	U 2 2 2	10,000	T	T	0	4	T	0	1	G1
5	U 2 2 3	10,000	T	T	0	4	T	0	1	G1
6	U 2 2 5	10,000	T	T	0	4	T	0	1	G1
7	U 2 2 6	10,000	T	T	0	4	T	0	1	G1
8	U 2 2 7	10,000	T	T	0	4	T	0	1	G1
9	U 2 2 8	10,000	T	T	0	4	T	0	1	G1
10	U 2 3 4	10,000	T	T	0	4	T	0	1	G1
11	U 2 3 5	10,000	T	T	0	4	T	0	1	G1
12	U 2 3 6	10,000	T	T	0	4	T	0	1	G1
13	U 2 3 7	10,000	T	T	0	4	T	0	1	G1
14	U 2 3 8	10,000	T	T	0	4	T	0	1	G1
15	U 2 3 9	10,000	T	T	0	4	T	0	1	G1
16	U 2 4 0	10,000	T	T	0	4	T	0	1	G1
17	U 2 4 3	10,000	T	T	0	4	T	0	1	G1
18	U 2 4 4	10,000	T	T	0	4	T	0	1	G1
19	U 2 4 5	10,000	T	T	0	4	T	0	1	G1
20	U 2 4 6	10,000	T	T	0	4	T	0	1	G1
21	U 2 4 7	10,000	T	T	0	4	T	0	1	G1
22	U 2 4 8	10,000	T	T	0	4	T	0	1	G1
23	U 2 4 9	10,000	T	T	0	4	T	0	1	G1
24	U 3 2 8	10,000	T	T	0	4	T	0	1	G1
25	U 3 5 3	10,000	T	T	0	4	T	0	1	G1
26	U 3 5 9	10,000	T	T	0	4	T	0	1	G1
27	P 0 0 1	10,000	T	T	0	4	T	0	1	G1
28	P 0 0 2	10,000	T	T	0	4	T	0	1	G1
29	P 0 0 3	10,000	T	T	0	4	T	0	1	G1
30	P 0 0 4	10,000	T	T	0	4	T	0	1	G1
31	P 0 0 5	10,000	T	T	0	4	T	0	1	G1
32	P 0 0 6	10,000	T	T	0	4	T	0	1	G1
33	P 0 0 7	10,000	T	T	0	4	T	0	1	G1

EPA ID Number (enter from page 1)

Secondary ID Number (enter from page 1)

I L D 0 0 0 6 0 8 4 7 1

XIV. Description of Hazardous Waste

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. CODE OF MATERIAL	D. PROCESSES											
				(1) PROCESS CODES (enter)						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))					
1	U 1 8 3	10,000	T	T	0	4	T	0	1					G1	
2	U 1 8 4	10,000	T	T	0	4	T	0	1					G1	
3	U 1 8 5	10,000	T	T	0	4	T	0	1					G1	
4	U 1 8 6	10,000	T	T	0	4	T	0	1					G1	
5	U 1 8 7	10,000	T	T	0	4	T	0	1					G1	
6	U 1 8 8	10,000	T	T	0	4	T	0	1					G1	
7	U 1 8 9	10,000	T	T	0	4	T	0	1					G1	
8	U 1 9 0	10,000	T	T	0	4	T	0	1					G1	
9	U 1 9 1	10,000	T	T	0	4	T	0	1					G1	
10	U 1 9 2	10,000	T	T	0	4	T	0	1					G1	
11	U 1 9 3	10,000	T	T	0	4	T	0	1					G1	
12	U 1 9 4	10,000	T	T	0	4	T	0	1					G1	
13	U 1 9 5	10,000	T	T	0	4	T	0	1					G1	
14	U 1 9 6	10,000	T	T	0	4	T	0	1					G1	
15	U 1 9 7	10,000	T	T	0	4	T	0	1					G1	
16	U 2 0 0	10,000	T	T	0	4	T	0	1					G1	
17	U 2 0 1	10,000	T	T	0	4	T	0	1					G1	
18	U 2 0 2	10,000	T	T	0	4	T	0	1					G1	
19	U 2 0 3	10,000	T	T	0	4	T	0	1					G1	
20	U 2 0 4	10,000	T	T	0	4	T	0	1					G1	
21	U 2 0 5	10,000	T	T	0	4	T	0	1					G1	
22	U 2 0 6	10,000	T	T	0	4	T	0	1					G1	
23	U 2 0 7	10,000	T	T	0	4	T	0	1					G1	
24	U 2 0 8	10,000	T	T	0	4	T	0	1					G1	
25	U 2 0 9	10,000	T	T	0	4	T	0	1					G1	
26	U 2 1 0	10,000	T	T	0	4	T	0	1					G1	
27	U 2 1 1	10,000	T	T	0	4	T	0	1					G1	
28	U 2 1 3	10,000	T	T	0	4	T	0	1					G1	
29	U 2 1 4	10,000	T	T	0	4	T	0	1					G1	
30	U 2 1 5	10,000	T	T	0	4	T	0	1					G1	
31	U 2 1 6	10,000	T	T	0	4	T	0	1					G1	
32	U 2 1 7	10,000	T	T	0	4	T	0	1					G1	
33	U 2 1 8	10,000	T	T	0	4	T	0	1					G1	

EPA I.D. Number (enter from page 31)

Secondary ID Number (enter from page 1)

I L D 0 0 0 0 1 6 0 8 4 7 1

XIV. Description of Hazardous Waste (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. SIFT OF HAZARDOUS WASTE (lb.)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESC. (PTION (if a code is not entered in D(1))
1	P 0 0 4 5	10,000	T 3	T 0 0 4 T 0 0 1	G1
2	P 0 0 4 6	10,000	T 3	T 0 0 4 T 0 0 1	G1
3	P 0 0 4 7	10,000	T 3	T 0 0 4 T 0 0 1	G1
4	P 0 0 4 8	10,000	T 3	T 0 0 4 T 0 0 1	G1
5	P 0 0 4 9	10,000	T 3	T 0 0 4 T 0 0 1	G1
6	P 0 0 5 0	10,000	T 3	T 0 0 4 T 0 0 1	G1
7	P 0 0 5 1	10,000	T 3	T 0 0 4 T 0 0 1	G1
8	P 0 0 5 4	10,000	T 3	T 0 0 4 T 0 0 1	G1
9	P 0 0 5 5	10,000	T 3	T 0 0 4 T 0 0 1	G1
10	P 0 0 5 7	10,000	T 3	T 0 0 4 T 0 0 1	G1
11	P 0 0 5 8	10,000	T 3	T 0 0 4 T 0 0 1	G1
12	P 0 0 5 9	10,000	T 3	T 0 0 4 T 0 0 1	G1
13	P 0 0 6 0	10,000	T 3	T 0 0 4 T 0 0 1	G1
14	P 0 0 6 2	10,000	T 3	T 0 0 4 T 0 0 1	G1
15	P 0 0 6 3	10,000	T 3	T 0 0 4 T 0 0 1	G1
16	P 0 0 6 4	10,000	T 3	T 0 0 4 T 0 0 1	G1
17	P 0 0 6 5	10,000	T 3	T 0 0 4 T 0 0 1	G1
18	P 0 0 6 6	10,000	T 3	T 0 0 4 T 0 0 1	G1
19	P 0 0 6 7	10,000	T 3	T 0 0 4 T 0 0 1	G1
20	P 0 0 6 8	10,000	T 3	T 0 0 4 T 0 0 1	G1
21	P 0 0 6 9	10,000	T 3	T 0 0 4 T 0 0 1	G1
22	P 0 0 7 0	10,000	T 3	T 0 0 4 T 0 0 1	G1
23	P 0 0 7 1	10,000	T 3	T 0 0 4 T 0 0 1	G1
24	P 0 0 7 2	10,000	T 3	T 0 0 4 T 0 0 1	G1
25	P 0 0 7 3	10,000	T 3	T 0 0 4 T 0 0 1	G1
26	P 0 0 7 4	10,000	T 3	T 0 0 4 T 0 0 1	G1
27	P 0 0 7 5	10,000	T 3	T 0 0 4 T 0 0 1	G1
28	P 0 0 7 6	10,000	T 3	T 0 0 4 T 0 0 1	G1
29	P 0 0 7 7	10,000	T 3	T 0 0 4 T 0 0 1	G1
30	P 0 0 7 8	10,000	T 3	T 0 0 4 T 0 0 1	G1
31	P 0 0 8 1	10,000	T 3	T 0 0 4 T 0 0 1	G1
32	P 0 0 8 2	10,000	T 3	T 0 0 4 T 0 0 1	G1
33	P 0 0 8 4	10,000	T 3	T 0 0 4 T 0 0 1	G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

T | L | D | 0 | 0 | 0 | 6 | 0 | 8 | 4 | 7 | 1

XIV. Description of Hazardous Wastes (continued)

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P   0   0   8	10,000	T	T   0   4   T   0   1	G1
2	P   0   0   9	10,000	T	T   0   4   T   0   1	G1
3	P   0   1   0	10,000	T	T   0   4   T   0   1	G1
4	P   0   1   1	10,000	T	T   0   4   T   0   1	G1
5	P   0   1   2	10,000	T	T   0   4   T   0   1	G1
6	P   0   1   3	10,000	T	T   0   4   T   0   1	G1
7	P   0   1   4	10,000	T	T   0   4   T   0   1	G1
8	P   0   1   5	10,000	T	T   0   4   T   0   1	G1
9	P   0   1   6	10,000	T	T   0   4   T   0   1	G1
10	P   0   1   7	10,000	T	T   0   4   T   0   1	G1
11	P   0   1   8	10,000	T	T   0   4   T   0   1	G1
12	P   0   2   0	10,000	T	T   0   4   T   0   1	G1
13	P   0   2   1	10,000	T	T   0   4   T   0   1	G1
14	P   0   2   2	10,000	T	T   0   4   T   0   1	G1
15	P   0   2   3	10,000	T	T   0   4   T   0   1	G1
16	P   0   2   4	10,000	T	T   0   4   T   0   1	G1
17	P   0   2   6	10,000	T	T   0   4   T   0   1	G1
18	P   0   2   7	10,000	T	T   0   4   T   0   1	G1
19	P   0   2   8	10,000	T	T   0   4   T   0   1	G1
20	P   0   2   9	10,000	T	T   0   4   T   0   1	G1
21	P   0   3   0	10,000	T	T   0   4   T   0   1	G1
22	P   0   3   1	10,000	T	T   0   4   T   0   1	G1
23	P   0   3   3	10,000	T	T   0   4   T   0   1	G1
24	P   0   3   4	10,000	T	T   0   4   T   0   1	G1
25	P   0   3   6	10,000	T	T   0   4   T   0   1	G1
26	P   0   3   7	10,000	T	T   0   4   T   0   1	G1
27	P   0   3   8	10,000	T	T   0   4   T   0   1	G1
28	P   0   3   9	10,000	T	T   0   4   T   0   1	G1
29	P   0   4   0	10,000	T	T   0   4   T   0   1	G1
30	P   0   4   1	10,000	T	T   0   4   T   0   1	G1
31	P   0   4   2	10,000	T	T   0   4   T   0   1	G1
32	P   0   4   3	10,000	T	T   0   4   T   0   1	G1
33	P   0   4   4	10,000	T	T   0   4   T   0   1	G1

EPA I.D. Number (enter from page 1)

Secondary ID Number (enter from page 1)

**XIV. Description of Hazardous Wastes (continued)**

Line Number		A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
					(1) PROCESS CODES (enter)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
1	0					
1	1					
1	2					
1	3					
1	4					
1	5					
1	6					
1	7					
1	8					
	9					
2	2					
2	3					
2	4					
2	5					
2	6					
2	7					
2	8					
2	9					
2	0					
3	1					
3	2					
3	3					

EPA I.D. Number (enter from page 1):

Secondary ID Number (enter from page 1):

I L D 0 0 0 6 0 8 4 7 1

XIV. Description of Hazardous Wastes (continued):

Line Number	A. EPA HAZARDOUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES										(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
	(1) PROCESS CODES (enter)																
1	P	0	8	5	10,000	T	T	0	4	T	0	1					G1
2	P	0	8	7	10,000	T	T	0	4	T	0	1					G1
3	P	0	8	8	10,000	T	T	0	4	T	0	1					G1
4	F	0	3	2	10,000	T	T	0	4	T	0	1					G1
5	F	0	3	4	10,000	T	T	0	4	T	0	1					G1
6	F	0	3	5	10,000	T	T	0	4	T	0	1					G1
7	K	1	0	7	10,000	T	T	0	4	T	0	1					G1
8	K	1	0	8	10,000	T	T	0	4	T	0	1					G1
9	K	1	0	9	10,000	T	T	0	4	T	0	1					G1
10	K	1	1	0	10,000	T	T	0	4	T	0	1					G1
11	K	1	3	1	10,000	T	T	0	4	T	0	1					G1
12	K	1	3	2	10,000	T	T	0	4	T	0	1					G1
13	K	0	6	4	10,000	T	T	0	4	T	0	1					G1
14	K	0	6	5	10,000	T	T	0	4	T	0	1					G1
15	K	0	6	6	10,000	T	T	0	4	T	0	1					G1
16	K	0	8	8	10,000	T	T	0	4	T	0	1					G1
17	K	0	9	0	10,000	T	T	0	4	T	0	1					G1
18	K	0	9	1	10,000	T	T	0	4	T	0	1					G1
19	P	0	2	6	10,000	T	T	0	4	T	0	1					G1-Included with above
20	F	0	3	7	10,000	T	S	0	1	S	0	2					Storage and Transfer
21	F	0	3	8	10,000	T	S	0	1	S	0	2					Storage and Transfer
22	K	1	4	1	10,000	T	S	0	1	S	0	2					Storage and Transfer
23	K	1	4	2	10,000	T	S	0	1	S	0	2					Storage and Transfer
24	K	1	4	3	10,000	T	S	0	1	S	0	2					Storage and Transfer
25	K	1	4	4	10,000	T	S	0	1	S	0	2					Storage and Transfer
26	K	1	4	5	10,000	T	S	0	1	S	0	2					Storage and Transfer
27	K	1	4	7	10,000	T	S	0	1	S	0	2					Storage and Transfer
28	K	1	4	8	10,000	T	S	0	1	S	0	2					Storage and Transfer
29	K	1	4	9	10,000	T	S	0	1	S	0	2					Storage and Transfer
30	K	1	5	0	10,000	T	S	0	1	S	0	2					Storage and Transfer
31	K	1	5	1	10,000	T	S	0	1	S	0	2					Storage and Transfer
32																	
33																	



I L D 0 0 0 6 0 8 4 7 1																							
XIV: Description of Facility																							
USE THIS SPACE TO ENTER ADDITIONAL PROCESS CODES FROM ROW 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000																							

PAGE

6A

6B

6C

6D

6E

6G

## XV: Map

- Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

## XVI: Facility Drawing

- All existing facilities must include a scale drawing of the facility (see instructions for more detail).

## XVII: Photography

- All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

## XVIII: Certification(s)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signature

Date Signed

08/10/93

Name and Official Title (type or print)

Illinois International Port District - Executive Director

Operator Signature

Date Signed

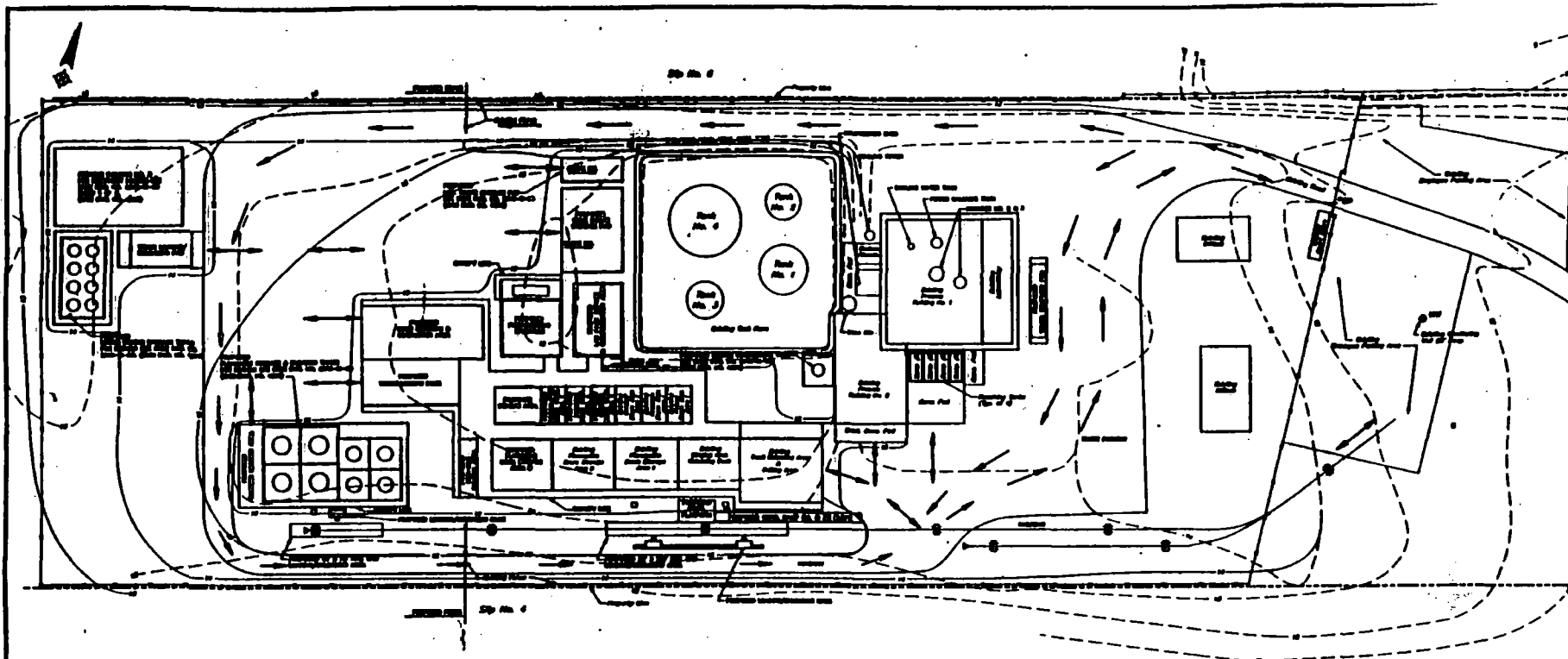
08/05/93

Name and Official Title (type or print)

Joseph L. McNally, Vice President and General Manager

## XIX: Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (refer to instructions for more information)



# **NOTES:**

1. FOR DRUM STORAGE AREA DETAILS SEE CHCI DWG. NO. 2916-S-04. (CHCI DWG. NO. 4216)
2. FOR LAB PACK REPACK & CONSOLIDATION AREA DETAILS SEE CHCI DWG. NO. 2916-S-05. (CHCI DWG. NO. 4211)
3. FOR DRUM CRUSHING & COMPACTING AREA DETAILS SEE CHCI DWG. NO. 2916-S-06. (CHCI DWG. NO. 4212)
4. FOR DETAILS OF SECONDARY CONTAINMENT FOR RAIL CAR LOADING/UNLOADING AREA SEE CHCI DWG. NO. 2916-S-04. (CHCI DWG. NO. 4217)
5. EXISTING FACILITIES HAVE BEEN IDENTIFIED ON THIS DRAWING AND ARE SHOWN ON CHCI DWG. NO. 2916-C-04. (CHCI DWG. NO. 4203). ALL OTHER OPERATIONS & STRUCTURES SHOWN ON THIS DRAWING ARE PREVIOUSLY APPROVED BUT NOT CONSTRUCTED OR ARE PROPOSED IN THIS APPLICATION.
6. ——— INDICATES THE TRAFFIC PATTERN ON SITE.
7. PROPOSED CONTOURS ARE TO BE DEVELOPED ALONG WITH THE PROPOSED FACILITIES.
8. FOR RAIL BLENDING OPERATION DETAILS SEE CHCI DWG. NO. 2916-S-07. (CHCI DWG. NO. 4213)
9. FOR TRUCK LOADING DOCK & TRUCK SAMPLING PAD DETAILS SEE CHCI DWG. NO. 2916-S-10. (CHCI DWG. NO. 4234)

# **LEGEND**

- Existing Contours  
 --- PROPOSED CONTOURS

CHCI DWG. NO. 4204

C	RCRA PART B SUBMITTAL UPDATE	DATE	BY	CHKD	APPD
D	RCRA PART B SUBMITTAL UPDATE	DATE	BY	CHKD	APPD
A	RCRA PART B SUBMITTAL	DATE	BY	CHKD	APPD

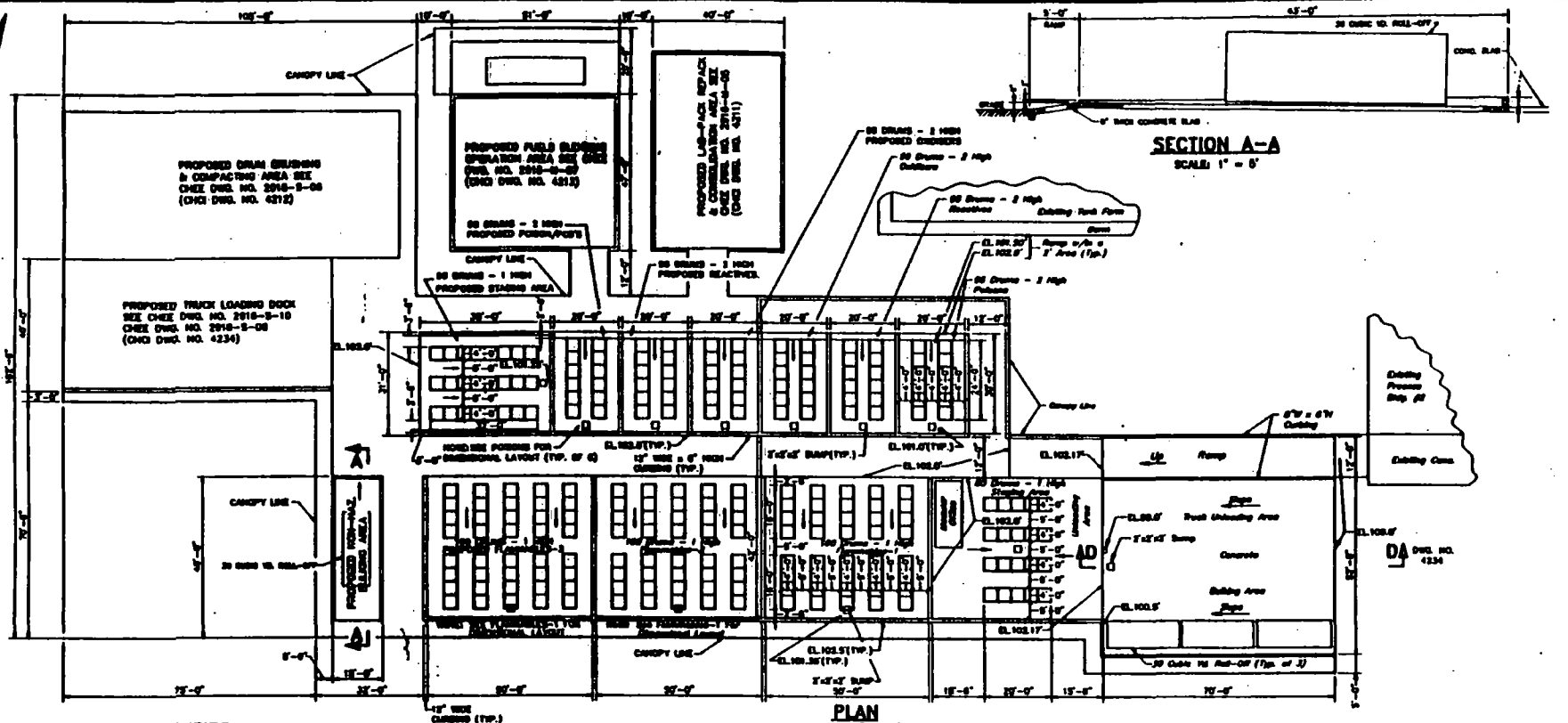
**Clean Harbors**  
 ENVIRONMENTAL ENGINEERING, INC.

**CLEAN HARBORS OF CHICAGO, INC.**  
 11800 S. STONY ISLAND AVENUE  
 CHICAGO, ILLINOIS 60617

**SITE PLAN**  
 EXISTING, APPROVED AND  
 PROPOSED FACILITIES & OPERATIONS

Scale: E-2010  
 1" = 60'

**2916-C-05**



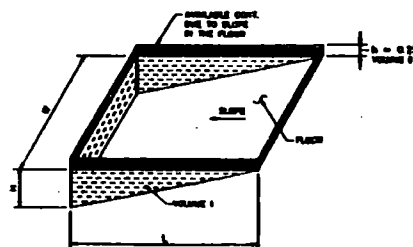
### APPROVED ACTIVITIES

AREA DESCRIPTION	TOTAL CAPACITY FOR AREA				VOLUME & RECTANGULAR AREA				VOL. OIL BY PRODUCT			
	NO. OF DRUMS	TOTAL VOL. OF OIL IN OILS	CHCI OIL IN OILS	DRUM CAPACITY IN OILS	AREA (SQ. FT.)	AREA (SQ. FT.)	AREA (SQ. FT.)	AREA (SQ. FT.)	NO. OF DRUMS	TOTAL VOL. OF OIL IN OILS	CHCI OIL IN OILS	DRUM CAPACITY IN OILS
STORAGE	100	5,000	500	500	100	100	100	100	100	5,000	500	500
BRUSHING	100	5,000	500	500	100	100	100	100	100	5,000	500	500
COMPACTING	100	5,000	500	500	100	100	100	100	100	5,000	500	500
STORAGE - 1	100	5,000	500	500	100	100	100	100	100	5,000	500	500
STORAGE - 2	100	5,000	500	500	100	100	100	100	100	5,000	500	500

### PROPOSED ACTIVITIES

AREA DESCRIPTION	TOTAL CAPACITY FOR AREA				VOLUME & RECTANGULAR AREA				VOL. OIL BY PRODUCT			
	NO. OF DRUMS	TOTAL VOL. OF OIL IN OILS	CHCI OIL IN OILS	DRUM CAPACITY IN OILS	AREA (SQ. FT.)	AREA (SQ. FT.)	AREA (SQ. FT.)	AREA (SQ. FT.)	NO. OF DRUMS	TOTAL VOL. OF OIL IN OILS	CHCI OIL IN OILS	DRUM CAPACITY IN OILS
STORAGE	100	5,000	500	500	100	100	100	100	100	5,000	500	500
BRUSHING	100	5,000	500	500	100	100	100	100	100	5,000	500	500
COMPACTING	100	5,000	500	500	100	100	100	100	100	5,000	500	500
STORAGE - 1	100	5,000	500	500	100	100	100	100	100	5,000	500	500
STORAGE - 2	100	5,000	500	500	100	100	100	100	100	5,000	500	500

CHCI DWG. NO. 4210



RCRA PART 9 SUBMITTAL UPDATE	RCRA PART 9 SUBMITTAL	CHCI P.W.P. WORK
<b>Clean Harbors</b> ENVIRONMENTAL ENGINEERING, INC. 11800 S. STONY ISLAND AVENUE CHICAGO, ILLINOIS 60617 <b>APPROVED AND PROPOSED          CONTAINER MANAGEMENT AREA          LAYOUT AND DETAILS</b>		
DATE: 6-2016	BY: AS NOTED	2916-M-04

SEP 27 1993

HRP-8J

Mr. Lawrence Eastep, Manager  
Permits Section  
Illinois Environmental Protection Agency  
Division of Land Pollution Control  
2200 Churchill Road  
Springfield, Illinois 62706

RE: Clean Harbors of Chicago, Inc.  
ILD000608471

Dear Mr. Eastep:

Enclosed are copies of the Federal portion of the Hazardous Waste Management Final Permit and the Response to Comments for the referenced facility. Please insert the effective date and the expiration date on the first page of the Federal permit to coincide with the State portion of the permit. Also, provide a copy of the Federal portion of the permit to the Owner and to the Operator of the facility, and copies of the Response to Comments and Federal appeal procedures (40 CFR 124.19) to all interested parties in accordance with Activity 10 of the Illinois EPA/U.S. EPA Joint Permitting Procedures.

Sincerely,

George J. Hamper, P.E.  
Chief, Illinois Section  
RCRA Permitting Branch

Enclosures

	TYP.	AUTH.	IL CHIEF	IN CHIEF	MI CHIEF	WV CHIEF	OH. CHIEF	TPS CHIEF	SWB CHIEF	WM DIR
INIT. DATE		<i>GER</i> 9-24-93	<i>GA</i> 9/24/93							